

Installation Manual

Compression S-type load cell PR 6241



Foreword

Must be followed!

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1 Introduction

1.1 Read the manual

- Please read this manual carefully and completely before using the product.
- This manual is part of the product. Keep it in a safe and easily accessible location.

1.2 This is what operating instructions look like

1. - n. are placed before steps that must be done in sequence.
 - ▶ is placed before a step.
 - ▷ describes the result of a step.

1.3 This is what lists look like

- indicates an item in a list.

1.4 This is what menu items and softkeys look like

[] frame menu items and softkeys.

Example:

[Start]- [Applications]- [Excel]

1.5 This is what the safety instructions look like

Signal words indicate the severity of the danger involved when measures for preventing hazards are not followed.

DANGER

Warning of personal injury

DANGER indicates death or severe, irreversible personal injury which will occur if the corresponding safety measures are not observed.

- ▶ Take the corresponding safety precautions.

WARNING

Warning of hazardous area and/or personal injury

WARNING indicates that death or severe, irreversible injury may occur if appropriate safety measures are not observed.

- ▶ Take the corresponding safety precautions.

CAUTION

Warning of personal injury.

CAUTION indicates that minor, reversible injury may occur if appropriate safety measures are not observed.

- ▶ Take the corresponding safety precautions.

NOTICE**Warning of damage to property and/or the environment.**

NOTICE indicates that damage to property and/or the environment may occur if appropriate safety measures are not observed.

- ▶ Take the corresponding safety precautions.
-

Note:

User tips, useful information, and notes.

1.6 Hotline

Phone: +49.40.67960.444

Fax: +49.40.67960.474

eMail: help@minebea-intec.com

2 Safety instructions

2.1 General notes

NOTICE

Warning of damage to property and/or the environment.

The product was in perfect condition with regard to safety features when it left the factory.

- ▶ To maintain this condition and to ensure safe operation, the user must follow the instructions and observe the warnings in this manual.

2.2 Intended use

The load cell PR 6241 has been designed especially for weighing small and medium sized process vessels and for high-precision filling.

The load cell PR 6241 may only be used as intended for weighing tasks.

In intrinsically safe circuits, only load cells PR 6241/..E may be used.

The dimensions of all mounting and structural components must be calculated so that sufficient overload capacity is ensured for all loads which may occur while taking the relevant standards into account. In particular, upright weighing objects must be safeguarded against the weighing installation turning over or being shifted, thus eliminating danger to people, animals, or goods even in the case of a break in a load cell or mounting element.

Installation and repair work must only be carried out by expert/qualified personnel.

The load cell reflects the state of the art. The manufacturer does not accept any liability for damage caused by third-party system components or due to incorrect use of the product.

2.3 Initial inspection

Check the contents of the consignment for completeness. Check the contents visually to determine whether any damage has occurred during transport. If there are grounds for rejection of the goods, a claim must be filed with the carrier immediately. The Minebea Intec sales or service organization must also be notified.

2.4 Before operational startup

NOTICE

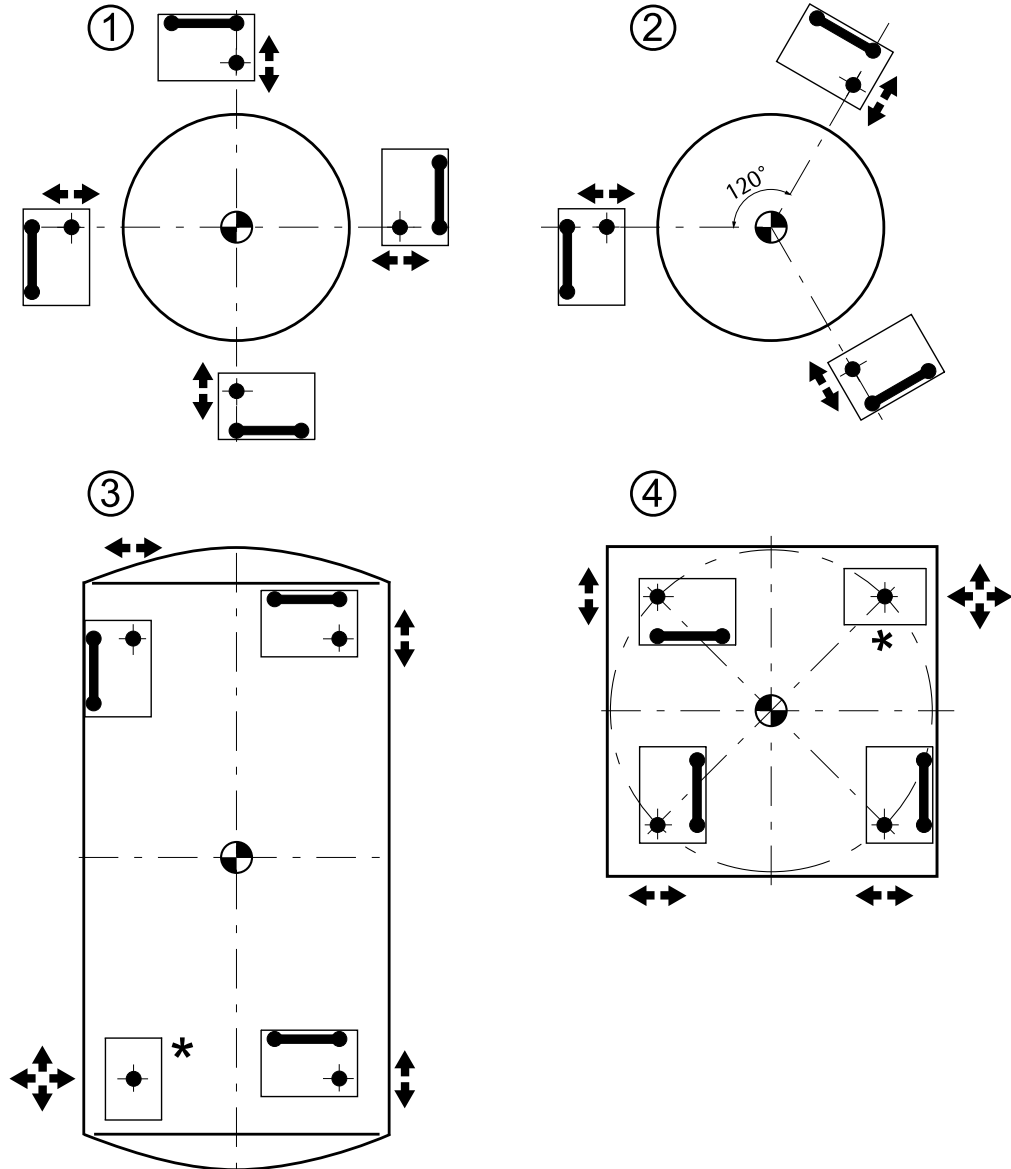
Perform visual inspection.

- ▶ Before operational startup as well as after storage or transport, inspect the load cell visually for signs of mechanical damage.

3 Recommendations for installation

3.1 Load cell and constrainer arrangement

Examples:



Key

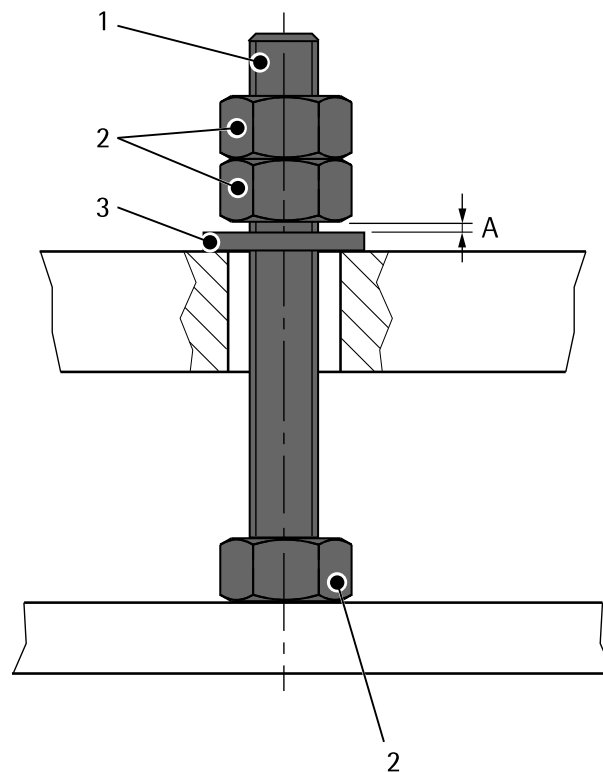
*	Do not constrain this position.
	Constrainer
	Load application
	Possible direction of movement

- The supporting structure of the scale (i.e. the load cell support) and the vessel must be stable enough to withstand the specified loads, be horizontal (water level!) and flat.
- Vessels should preferably be supported by 3 load cells (see figure).
- Transverse and/or horizontal forces and torques exceeding the permissible limits are disturbances which can generate measuring errors and, in the worst case, may damage the load cell.
- If the object to be measured is constrained properly, damage and measuring errors can be prevented without affecting the required space for movement in the direction of the measurement.

Consideration should be given to the fact that thermal expansion and contractions may constrict the required space for movement of the object to be weighed and could thereby lead to significant falsification of the measuring results.

Therefore, special attention should be paid to the design, arrangement, and condition of the constrainers.

3.2 Additional lift-off protection



For safety reasons, a lift-off protection has to be generally provided on vessels. This can be constructed separately or additionally installed in the mounting kit (see Chapter [11.2.1](#)).

For this purpose, the simplest version requires the following components:

- 1x threaded bar (1)
- 3x nut (2)
- 1x washer (3)

Assembly:

- Mount the threaded bar (1) so that it has sufficient free moving space in the drill hole.
- Lock the nuts (2) so that there is a remaining distance A^* from the washer (3).

* $A = 2 \text{ mm}$

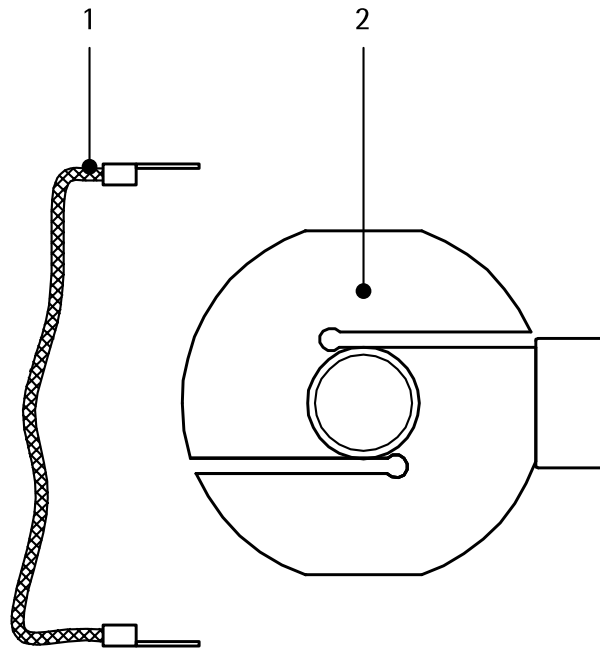
This distance is essential to avoid force shunts.

3.3 Selecting maximum capacity

If there is a risk of the safe load limit E_{lim} being exceeded (even only temporarily, e.g. by falling loads), mechanical limiting in load direction is required or an appropriate rubber damping mechanism must be provided (elastomer support see Chapter [11.2.1](#)).

4 Specifications

4.1 Equipment supplied with the load cell



No.	Description
1	Flexible copper strap
2	Load cell
The following are not shown:	
3	Quick guide
4	Calibration Certificate
5	Only with Ex-load cells: Safety information for Ex-load cells

4.2 General information

Load cell material	Stainless steel 1.4542 acc. to DIN EN 10088-3
Protection against environmental influences	Hermetically sealed by welding. Filled with inert gas.
Protection classes	in compliance with IEC 529 or DIN EN 60529 IP66/IP68: Dust-proof and leak-tight against water, with harmful effects when immersed, (1.5 m water depth, 10,000 h). Explosion: Suitable for explosion subgroup IIC and IIIC.
Protection type	Intrinsic safety for PR 6241/..E

Ambient temperature in the Ex area	see additional information "safety instructions for Ex load cells"
Cable diameter	5 mm
Cable length	5 m
Cable gauge	4×0.35 mm ²
Cable bend radius	≥25 mm (fixed installation) ≥75 mm (flexible installation)
Cable sheath material	Thermoplastic elastomer (TPE)
Cable sheath color	Gray (standard version) Blue (Ex version)

4.3 Possible marking of the load cell for the Ex area

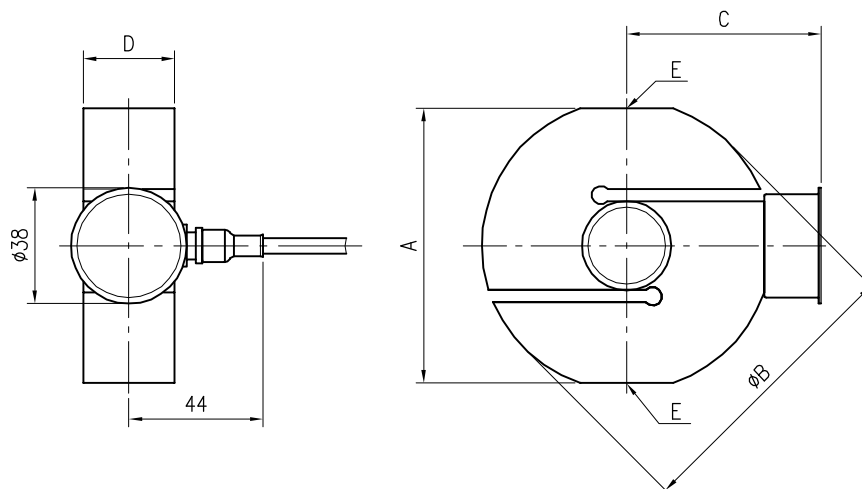
Zone	Marking	Certificate no.	for
0 and 1	II 1G Ex ia IIC T6 Ga Ex ia IIC T6 Ga	BVS 16 ATEX E 005 IECEX BVS 16.0005	only PR 6241/..E
20 and 21	II 1D Ex ta IIIC T160 °C Da Ex ta IIIC T160 °C Da	TÜV 03 ATEX 2301X IECEX TUN 17.0025X	all PR 6241 without /..E
2	II 3G Ex nA IIC T6 Gc	MIN16ATEX001X	all PR 6241 without /..E
22	II 3D Ex tc IIIC T85 °C Dc	MIN16ATEX001X	all PR 6241 without /..E
	IS CL I, II, III, DIV 1, GP A, B, C, D, E, F, G Entity - 4012 101 5688 NI CL I, II, III, DIV 2, GP A, B, C, D, E, F, G - 4012 101 5688; NIFW T4A Ta= -40°C to 70°C; T5 Ta= -40°C to 55°C	FM17US0276	all PR 6241 without /..E
	IS CL I, II, III, DIV 1, GP A, B, C, D, E, F, G Entity - 4012 101 5688 NI CL I, II, III, DIV 2, GP A, B, C, D, E, F, G - 4012 101 5688; NIFW T4A Ta= -40°C to 70°C; T5 Ta= -40°C to 55°C	FM17CA0138	all PR 6241 without /..E

NOTICE

Installation in the Ex area

- For installations in the Ex area, it is imperative to observe the Ex safety instructions in the installation manuals.

4.4 Dimensions



all dimensions in mm

Model	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]
PR 6241/12-52	60	65	50	23	M12
PR 6241/13-23	60	65	50	30	M12
PR 6241/33	90	95	64	30	M20×1.5
PR 6241/53	90	95	64	35	M20×1.5

4.5 Ordering information

Model	Max. capacity E_{max}	Type
PR 6241/12	100 kg	..D1/D1E
PR 6241/22	200 kg	..D1/ D1E/C3/C3E/C6/C6E
PR 6241/32	300 kg	..D1/ D1E/C3/C3E/C6/C6E
PR 6241/52	500 kg	..D1/ D1E/C3/C3E/C6/C6E
PR 6241/13	1 t	..D1/ D1E/C3/C3E/C6/C6E
PR 6241/23	2 t	..D1/ D1E/C3/C3E/C6/C6E
PR 6241/33	3 t	..D1/ D1E/C3/C3E/C6/C6E
PR 6241/53	5 t	..D1/ D1E/C3/C3E

4.6 Technical data

Designation	Description	Abbr.	D1	C3	C6	Unit
Accuracy class			0.04	0.015	0.008	% E_{max}
Minimum dead load	lowest limit of specified measuring range	E_{min}		0		% E_{max}
Maximum capacity	highest limit of specified measuring range	E_{max}		See Chapter 4.5		
Safe load limit	maximum load without irreversible damage	E_{lim}		150		% E_{max}
Destructive load	danger of mechanical destruction	E_d		>300		% E_{max}
Minimum LC verification	minimum load cell scale interval, $v_{min} = E_{max}/Y$	Y	5000	14000	20000	
Minimum preload signal recurrence	recurrence of the minimum preload signal ($DR = \frac{1}{2} \times E_{max}/Z$)	Z	1000	3000	8000	
Rated output	relative output at maximum capacity	C_n		2		mV/V
Tolerance on rated output	permissible deviation from rated output C_n	d_c	<0.25	<0.07	<0.07	% C_n
Zero output signal	load cell output signal under unloaded condition	S_{min}		0 ± 1.0		% C_n
Repeatability	max. change in load cell output for repeated loading	ϵ_R	<0.01	<0.005	<0.005	% C_n
Creep	max. change of output signal at E_{max} during 30 minutes	d_{cr}	<0.03	<0.015	<0.008	% C_n
Linearity deviation ¹⁾	deviation from best straight line through zero	d_{Lin}	<0.03	<0.01	<0.01	% C_n
Hysteresis ¹⁾	max. difference in LC output between loading and unloading	d_{hy}	<0.04	<0.015	<0.008	% C_n
Temperature effect on S_{min}	max. change of S_{min} in B τ	$TK_{S_{min}}$	<0.028	<0.01	<0.007	% $C_n/10$ K
Temperature effect on $C^1)$	max. change of C in B τ	TK_C	<0.03	<0.01	<0.005	% $C_n/10$ K
Input impedance	between supply terminals	R_{LC}		650 ± 6		Ω
Output impedance	between measuring terminals	R_O	610 ± 1	610 ± 0.5	610 ± 0.5	Ω
Insulation impedance	between measuring circuit and housing at $U_{DC} = 100$ V	R_{IS}		>5000		M Ω
Insulation voltage	between circuit and housing (PR 6241/..E only)			500		V

Designation	Description	Abbr.	D1	C3	C6	Unit
Recommended supply voltage	to hold the specified performance	B_U		4...24		V
Max. supply voltage	permissible for continuous operation without damage	U_{max}		28		V
	for PR 6241/..E:	U_{max}		25		V
Nominal ambient temp. range	to hold the specified performance	B_T		-10...+55		°C
Usable ambient temp. range	permissible for continuous operation without damage	B_{T_U}		-40...+95		°C
Storage temperature range	without electrical and mechanical stress	B_{T_i}		-40...+95		°C
Permissible eccentricity	permissible displacement from nominal load line	S_{ex}		5		mm
Vibration resistance	resistance against oscillations (IEC 60068-2-6-Fc)			20 g, 100 h, 10...150 Hz		
Barometric pressure influence	influence of barometric pressure on output	$PK_{Smin} \leq 0.005$		≤ 0.0025	≤ 0.0025	% C_n/kPa
Nominal deflection	elastic deformation under max. capacity $E_{max} < 5 t$	S_{nom}		≤ 0.3		mm
	$E_{max} = 5 t$	$S_{nom} \leq 0.5$		≤ 0.5	...	mm

- 1) The data for non-linearity (d_{Lin}), hysteresis (d_{hy}) and temperature effect on C (TKC) are typical values.
For OIML R60 or NTEP approved load cells the sum of these values is within the permissible cumulative error limits.

Definitions acc. to OIML R60

The technical data given are intended solely as a product description and should not be interpreted as guaranteed properties in the legal sense.

NTEP: min. scale interval of the load cells v_{min} for PR 6241/12...PR 6241/52

	Type	Divisions n_{max}	100 kg	200 kg	300 kg	500 kg	Unit
Class III multiple	D1/D1E	2000	20	40	60	100	g
	C3/C3E	5000	...	14.3	21	36	g
	C6/C6E	8000	...	10	15	25	g
Class III L multiple	D1/D1E	5000	6.7	13.3	20	33	g
	C3/C3E	10000	...	5	7.1	12	g
	C6/C6E	10000	...	3	5	8	g

NTEP: min. scale interval of the load cells v_{\min} for PR 6241/13...PR 6241/53

	Type	Divisions n_{\max}	1 t	2 t	3 t	5 t	Unit
Class III multiple	D1/D1E	2000	200	400	600	1000	g
	C3/C3E	5000	71	143	214	357	g
	C6/C6E	8000	50	100	150	...	g
Class III L multiple	D1/D1E	5000	67	133	200	333	g
	C3/C3E	10000	24	48	71	119	g
	C6/C6E	10000	17	33	50	...	g

5 Installation

5.1 Safety instructions

NOTICE

Welding or lightning strike current flowing through the cell can damage it.

All electrical welding on the weighing system must be finished before mounting the load cells.

- ▶ When installing the load cell, immediately bypass the load cell with the flexible copper strap provided for this purpose (included in the equipment supplied, see Chapter 4.1).

During any additional electrical welding work near the load cell:

- Disconnect the load cell cables.
- Bypass the load cell using the flexible copper strap.
- Make sure that the grounding clamp of the welding set is fitted as closely as possible to the welding joint.

The following must be observed during installation:

- Do not lift or transport the load cell by pulling on the cable.
- Avoid shock stress (falling down, hard shocks).
- The load cell must be installed vertically and centrally in the mounting kit.
- Load forces must act in the measuring direction of the load cell.
- The load cell must be set up so that the label is upright. The cable is then seated on the lower leg.

NOTICE

Changes of temperature >15 K/h may influence the measuring accuracy.

- ▶ Make sure to protect the load cells from direct heating or cooling effects (sun, wind, heat radiation, fan heaters), e.g., heat protection screens or heat protection housings are to be installed if necessary.

NOTICE

Force shunts may cause measuring errors.

- ▶ All incoming and outgoing lines (hoses, pipes, cables) must be coupled to the measured object as flexibly as possible.

6 Connection

6.1 General information

- Protect the cable ends against contamination. Moisture must not get into the open end of the cable.
- Do not shorten the load cell connecting cable. Connect the prepared cable end and roll up the remaining cable.
- The screen of the load cell cable and the screen of the connecting cable must not be connected inside the cable junction box if connection of both ends is not permissible according to the regulations for installation in the explosion-prone area.
- Keep the load cell cables away from power cables.
- The distance between measurement cables and power cables and/or components under high voltage should be at least 1 m (reference value).
- We recommend laying the load cell cables in separate cable trays or armored steel pipes.
- Power cables should be crossed at right angles while taking into account the minimum distance of 1 m (reference value).

Note:

If hum interference occurs, the cable screens should only be connected on one side.

Depending on the design of the cable junction box used, either the jumper J3 must be removed or the cable screens must be disconnected from the terminal contacts highlighted in yellow.

⚠ WARNING**When installing in potentially explosive atmospheres:**

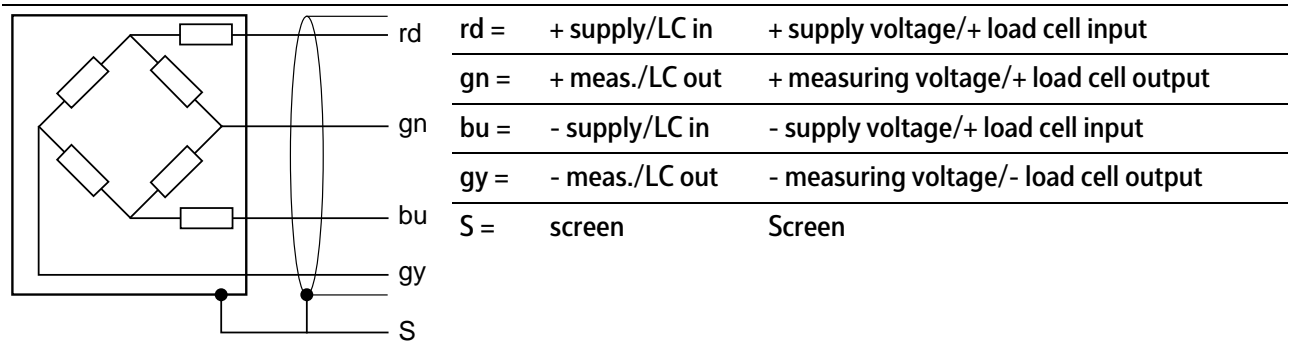
It is imperative that you follow the application-dependent installation instructions!

- ▶ Always check whether it is permissible to bilaterally connect the screens to the equipotential bonding.
-

6.2 Load cell

Color Code

rd	=	red
gn	=	green
bu	=	blue
gy	=	gray



6.2.1 Load cell cable

The load cell cables are inseparably connected to the load cells in the factory and their individual resistance and temperature effect are equalized with the load cells.

Therefore, never shorten the cables, rather simply roll up the extra length and secure it.

The special sheathing material and the integrated strain relief with Kevlar thread ensure extremely long service life even under difficult operating conditions.

However, despite the robust nature of the materials used, the cable should be protected from excessive chemical and mechanical stresses. Preventing water from penetrating the end of the cable is also important "life insurance" for the system.

6.3 Cable connections

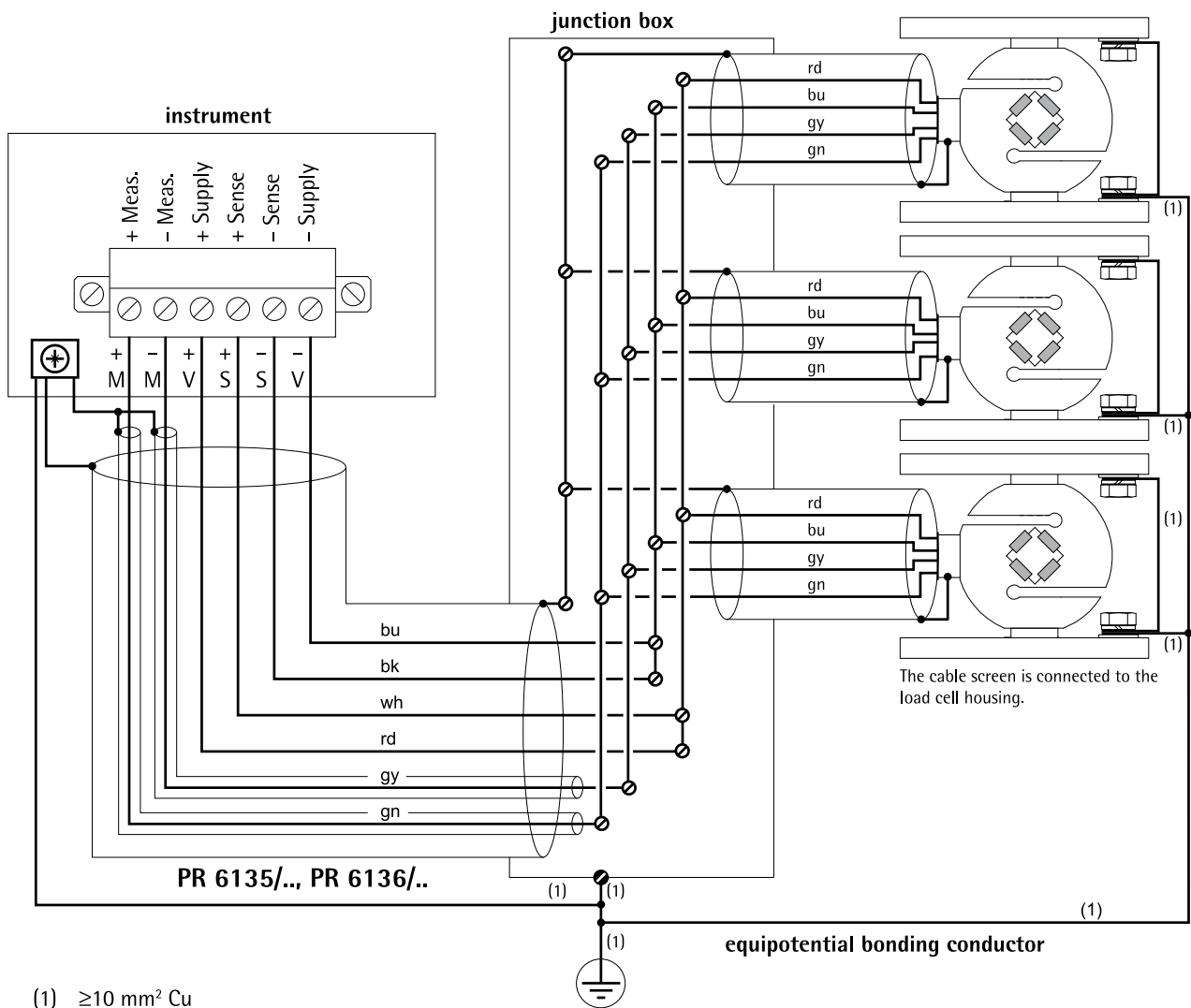
Note:

All components are only shown schematically.

Color code

bk	=	black
bu	=	blue
gn	=	green
gy	=	gray
rd	=	red
wh	=	white

Connection example



7 Preparing for calibration

7.1 General notes

Note:

For calibration of the measuring system, please refer to the manual of the corresponding indicator.

7.2 Smart Calibration

When using Minebea Intec devices, we recommend always running "Smart Calibration" first.

This allows all required values to be extracted from the Calibration Certificate supplied.

- The "Hysteresis correction values for Smart Calibration" listed on the Calibration Certificate are entered for [Correction A] and [Correction B] under [Hysteresis error] - [specified] in the indicator.

If the values are not available on the Calibration Certificate, [Hysteresis error] - [not specified] must be selected.

- The value listed under "Output at max. capacity" on the Calibration Certificate is entered in the indicator under [LC output at max. capacity].
- The value listed under "Output impedance" on the Calibration Certificate is entered in the indicator under [LC output impedance].

By performing these steps, a logical and highly accurate reading (typically better than 0.1%) is generated before the scale is even loaded for the first time.

7.3 Mechanical height adaptation

To distribute the load over the load cells as evenly as possible, height adaptation is required in systems with more than 3 load cells prior to calibration.

Procedure:

1. Place the dead load (e.g. empty vessel) onto the load cells of the scale structure.
2. Energize the load cells in parallel with a stabilized voltage (e.g.: $U_{DC} = 12\text{ V}$).
3. Measure the output voltages of each individual load cell by means of a digital voltmeter and compare the individual values.
 - ▷ Given deviation between the output voltages of the load cells, the load on the load cell with the lowest output voltage must be increased by putting shims between mounting plate and weighing construction.
4. Lift the weighing object immediately beside the affected load cell.
5. Place thin, deburred sheets of metal (0.5–2 mm thick) between the upper mounting plate and the scale structure.
6. Measure the output voltages of the load cells again and adjust the height of this load cell or of another one.

8 Troubleshooting

8.1 General Notes

The following hints will enable a technician to do an initial diagnostic or help in case of incorrect or non-reproducible weighing results after commissioning and calibration.

8.2 Visual inspection

Component	Possible errors
Weighing object	Are all pipes, hoses and cables free from shunt forces? Are the connections pliable and connected horizontally? Are elements with a solid connection to the scale in direct contact with the surroundings? Has friction developed between the weighing object and its surroundings (e.g. dusty openings, ...)?
Cable junction box	Has moisture intruded? Do all soldering and screw connections have secure contact?
Connecting cables	Is the sheath damaged? Has moisture intruded?
Mounting kit	Is the lift-off protection in contact with the scale? Are the constrainers stuck?
Load cell	Is the load cell parallel to the contact area? Is the adjustment chamber cover damaged? Is the sheath of the load cell cable damaged? Has moisture penetrated into the load cell cable?

8.3 Metrological controls

8.3.1 Checking the zero output signal of the load cell

- Unload load cell.
- Disconnect the load cell measuring outputs.
- Check whether the output voltage without load is within the limits.

Type	Output voltage
D1, C3, C6	$0 \pm 0.02 \text{ mV/V}$

8.3.2 Checking the strain gauge bridge of the load cell

- Do not exceed the test voltage.
- Check whether the values of the resistors are within the permissible limits.

Max. test voltage

- Standard version $U_{DC} = 28 \text{ V}$
- Intrinsically safe version (PR .../.E) $U_{DC} = 25 \text{ V}$

Type	Input impedance (red core, blue core)	Output impedance (green core, gray core)
D1	650 Ω \pm 6 Ω	610 Ω \pm 1 Ω
C3, C6	650 Ω \pm 6 Ω	610 Ω \pm 0.5 Ω

8.3.3 Checking the insulation impedance of the load cell

NOTICE

Possible destruction of load cell

- ▶ Never apply test voltage between two cores of the load cell cable.
- ▶ Insulate the load cell cores.

Max. test voltage

- Standard version $U_{DC} = 100$ V
- Intrinsically safe version $U_{AC} = 500$ V

Insulation impedance	Core – housing	>5000 M Ω
	Core – screen	>5000 M Ω
	Screen – housing	<0.2 Ω

8.3.4 Checking the insulation impedance of the connecting cable

- Disconnect connecting cable from measuring instrument and load cells.
- Insulate the cores of the connecting cable.

Insulation impedance	Core – core	>120 M Ω \times km
	Core – screen	>120 M Ω \times km

9 Maintenance/repairs/cleaning

9.1 Maintenance

The load cell PR 6241 is maintenance-free.

Load cell grease must be applied to the load cell mounting parts.

The load cell can be extensively sprayed with off-shore all-weather protection spray in aggressive environments.

Load cell grease specification

- good water/media resistance
- good corrosion protection properties
- good oxidization and aging stability
- good temperature resistance
- and, where appropriate, good compatibility with foodstuffs

The requirements referred to apply when taking into account the specific operating/usage conditions.

The grease also serves as protection against wear (low friction).

9.2 Repairs

The load cell PR 6241 is designed to be as robust as possible for the required measuring accuracy and is highly reliable.

Should an electrical or mechanical defect nevertheless occur, the load cell must be replaced.

Load cell repair is not possible.

9.3 Cleaning

Dirt on the load cell and movable parts of the scale must be cleaned as quickly as possible

- if it influences weighing, or
- if it is corrosive to the cell or cable material.

NOTICE

Some cleaning agents may not be compatible with the load cell material.

- ▶ When using cleaning agents, ensure that their compatibility with the load cell material has been tested and approved (see Chapter [4.2](#)).

10 Disposal

Our products and their packaging should not be disposed of in municipal waste (e.g. garbage can for recyclable packaging, garbage can for paper packaging, etc.). They can either be recycled by the customer themselves, providing this complies with requirements set out by electrical or electronic waste or packaging waste laws, or sent back to Minebea Intec at a charge.

This option of returning the product is intended to provide proper recycling or reuse in a manner that is collected separately from municipal waste.

Before disposing of or scrapping the old products, any single-use or rechargeable batteries should be removed and taken to a suitable collection point. The type of battery used is specified in the technical data.

Please see our General Terms and Conditions for further information.

Service addresses for repair acceptance and collection points can be found on the product information enclosed with the product as well as on our website (www.minebea-intec.com).

Should you have any further questions, please contact your local service representative or our service center.

Minebea Intec GmbH

Repair center

Meiendorfer Strasse 205 A

22145 Hamburg, Germany

Phone: +49.40.67960.333

service.HH@minebea-intec.com

We reserve the right not to accept products that are contaminated with hazardous substances (ABC contamination).

11 Spare parts and accessories

11.1 Replacement parts

No.	Description	Max. capacity	Order no.
1	Flexible copper strap, 250 mm long		5312 321 28056
2	Load disc set (incl. O-ring)	100 kg...2 t	5312 693 98132
3	Load disc set (incl. silicon Load disc)	3 t, 5 t	5312 693 98076
4	Fastening set incl. connector (Connexx modul)		5312 693 98162

11.2 Accessories

11.2.1 Mounting kits

To install the load cell, the following mounting kits / pivots are recommended:

No.	Description	Max. capacity	Order no.
1	Mounting kit PR 6041/30N	100 kg–2 t	9405 360 41301
2	Mounting kit PR 6041/30S	100 kg–2 t	9405 360 41302
3	Mounting kit PR 6041/40N	3 t, 5 t	9405 360 41401
4	Mounting kit PR 6041/40S	3 t, 5 t	9405 360 41402
5	Mini FLEXLOCK PR 6043/30N	100 kg–2 t	9405 360 43301
6	Mini FLEXLOCK PR 6043/30S	100 kg–2 t	9405 360 43302
7	Mini FLEXLOCK PR 6043/40N	3 t, 5 t	9405 360 43401
8	Mini FLEXLOCK PR 6043/40S	3 t, 5 t	9405 360 43402
9	Mounting kit PR 6044/00S	100 kg–2 t	9405 360 44002
10	Maxi FLEXLOCK PR 6044/10S	100 kg–2 t	9405 360 44102
11	Mounting kit PR 6044/01S	3 t, 5 t	9405 360 44012
12	Maxi FLEXLOCK PR 6044/11S	3 t, 5 t	9405 360 44112
13	Elastomer support PR 6041/04N	100–500 kg	9405 360 41041
14	Platform foot PR 6041/51S	100 kg–2 t	9405 360 41512
15	Constrainer PR 6143/80, for transversal force <2 kN		9405 361 43801
16	Constrainer PR 6143/83, for transversal force <20 kN		9405 361 43831

N = steel zinc plated, passivated and sealed (RoHS-compliant)

S = stainless steel

11.2.2 Load discs

To install the load cell, the following load discs are recommended:

No.	Description	Max. capacity	Order no.
1	Load disc kit PR 6043/31S (incl. O-ring)	100 kg–2 t	9405 360 43312

S = stainless steel

11.2.3 Connecting cables

To connect the junction box to the weighing electronics, we recommend using the following connecting cables:

No.	Description	Order no.
1	PR 6135/xx	9405 361 35xx2
2	PR 6135/01A (armored)	9405 361 35019
3	PR 6136/xx (for installation inside the explosion-hazarded area)	9405 361 36xx1
4	PR 6136/01A (armored, for installation inside the explosion-hazarded area)	9405 361 36019

11.2.4 Cable junction boxes

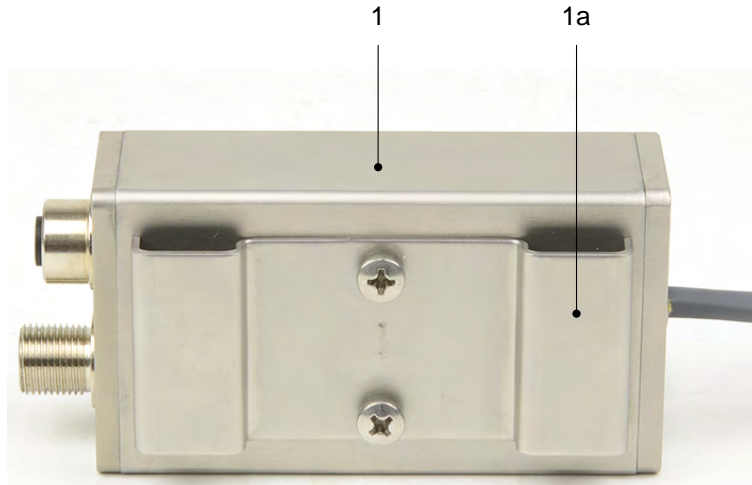
We recommend using the following junction boxes:

No.	Description	Order no.
1	PR 6130/04 (aluminum, 1–4 load cells, IP67; not for PR 6241/..E)	9405 361 30044
2	PR 6130/08 (polycarbonate, 1–8 load cells, IP66; not for PR 6241/..E)	9405 361 30084
3	PR 6130/34Sa (1.4301, 1–4 load cells, IP68, IP69, verifiable; not for PR 6241/..E)	9405 361 30344
4	PR 6130/35S (1.4301, 1–4 load cells, IP68, IP69, verifiable; not for PR 6241/..E)	9405 361 30354
5	PR 6130/38S (1.4404, 1–8 load cells, IP68, IP69, verifiable; not for PR 6241/..E)	9405 361 30384
6	PR 6130/64Sa (1.4301, 1–4 load cells, IP68, IP69, verifiable, ATEX, IECEx, FM)	9405 361 30644
7	PR 6130/65S (1.4301, 1–4 load cells, IP68, IP69, verifiable, ATEX, IECEx, FM)	9405 361 30654
8	PR 6130/68S (1.4404, 1–8 load cells, IP68, IP69, verifiable, ATEX, IECEx, FM)	9405 361 30684

11.2.5 Connex module

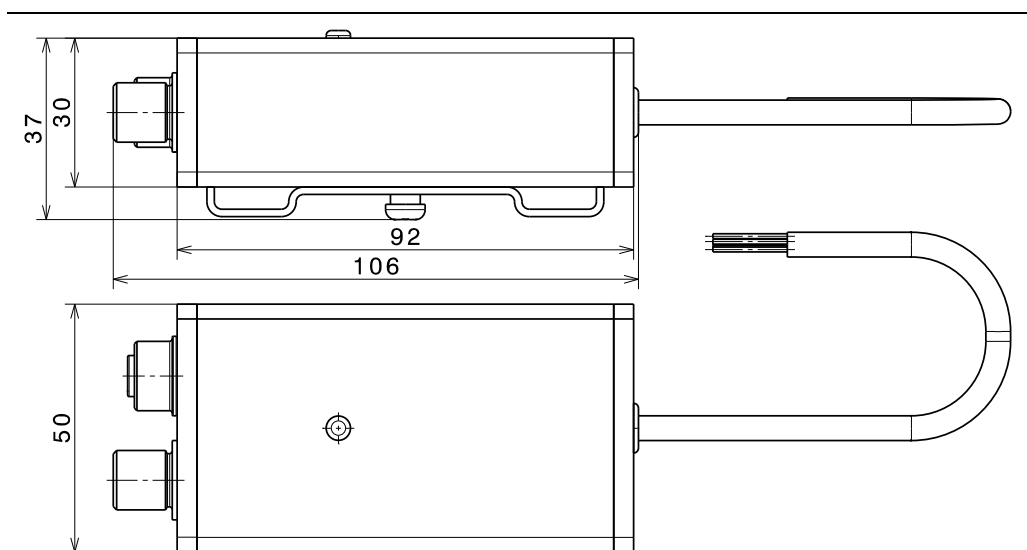
11.2.5.1 Specifications

11.2.5.1.1 Equipment supplied



No.	Description
1	Connex module incl. retaining plate (1a)
Not shown:	
2	Fixing bracket incl. knurled screw
3	Washers (4x; for various screw sizes)
4	Rail holder

11.2.5.1.2 Dimensions



All dimensions in mm

11.2.5.1.3 Technical data

Designation	Description	Abbr.	Temperature
Nominal ambient temp. range	to hold the specified performance	B _T	-10...+40 °C
Usable ambient temp. range	permissible for continuous operation without damage	B _{Tu}	-30...+60 °C
Storage temperature range	without electrical and mechanical stress	B _{Ti}	-30...+70 °C

11.2.5.2 Connection of Connex modules

The load cell is firmly attached to the Connex module.

The load cell cable is 0.7...1.0 m long.

The mounting options for the module are described in Chapter [11.2.5.3](#).

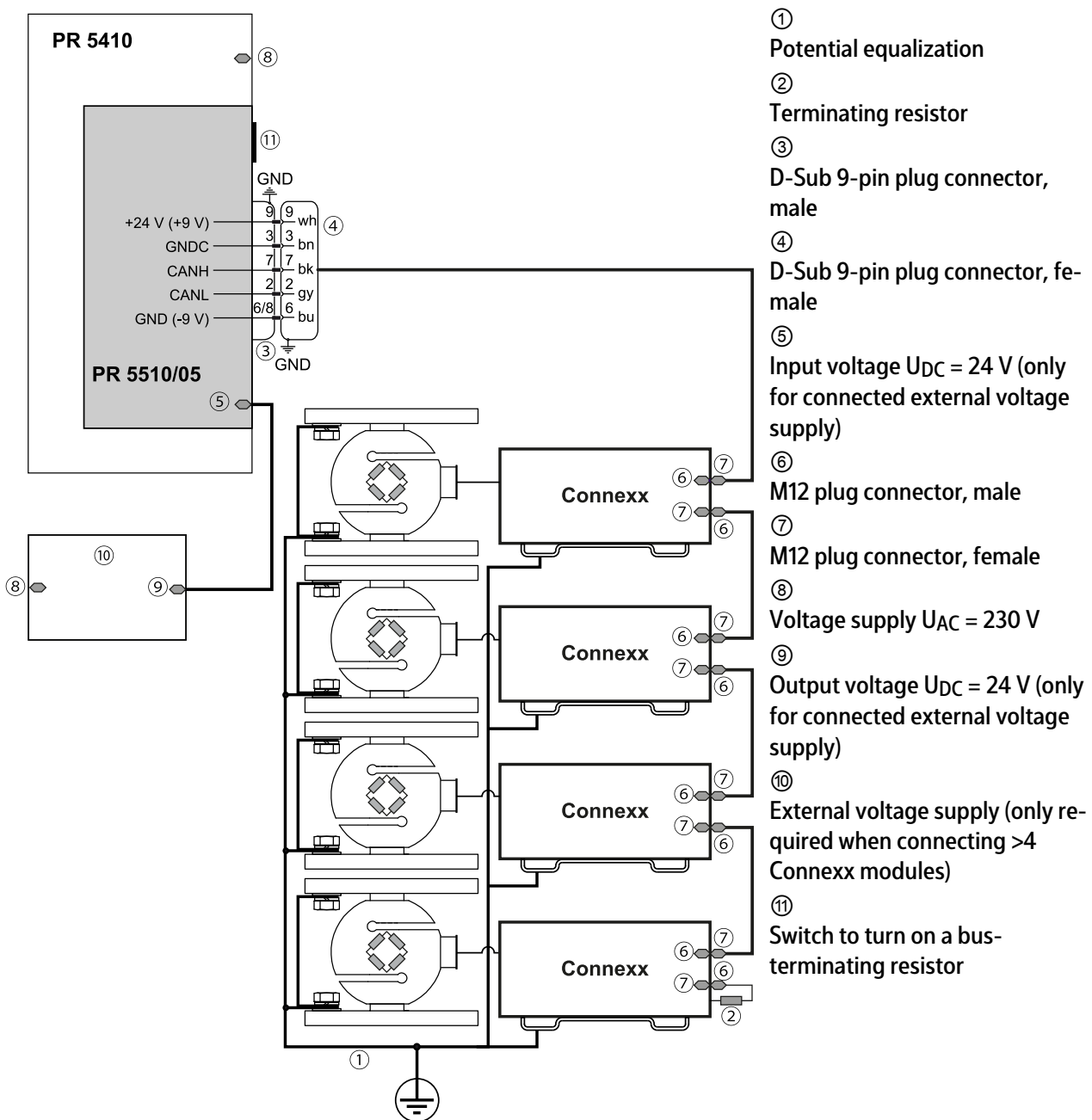
Cable lengths

Connecting part	Recommended length
Between the individual Connex modules	max. 10 m

Connections

Color abbreviations	Color	Description
wh	white	+ Supply voltage
bu	blue	- Supply voltage
bn	brown	GNDC
gy	gray	CAN_L bus signal (material PUR)
gr/ye	green/yellow	CAN_L bus signal (material PVC)
bk	black	CAN_H bus signal

Connection example, shown as a diagram



11.2.5.3 Mounting options

The Connex module is delivered with mounting elements.

It is possible to mount the Connex module in the following ways:

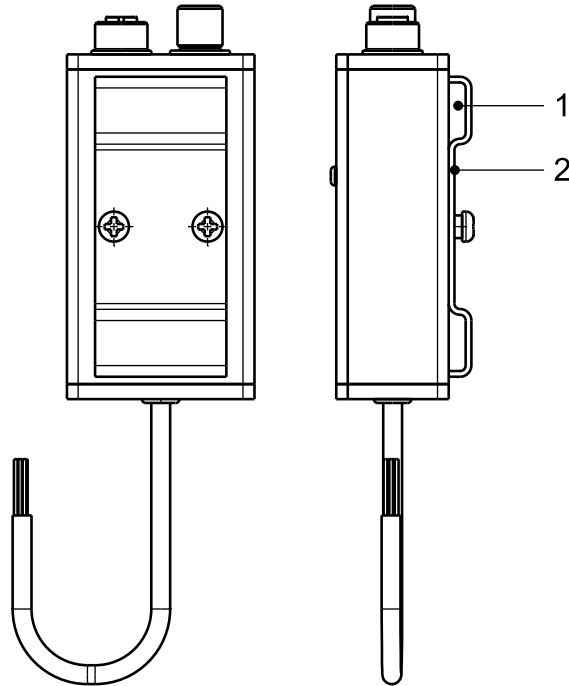
- Mounting using a retaining plate, see Chapter [11.2.5.3.1](#)
- Mounting using a mounting bracket, see Chapter [11.2.5.3.2](#)
- Mounting using a mounting rail holder, see Chapter [11.2.5.3.3](#)

11.2.5.3.1 Mounting using a retaining plate

When using a retaining plate, the Connexx module is attached to the weighing device (e.g. the leg of a container).

Note:

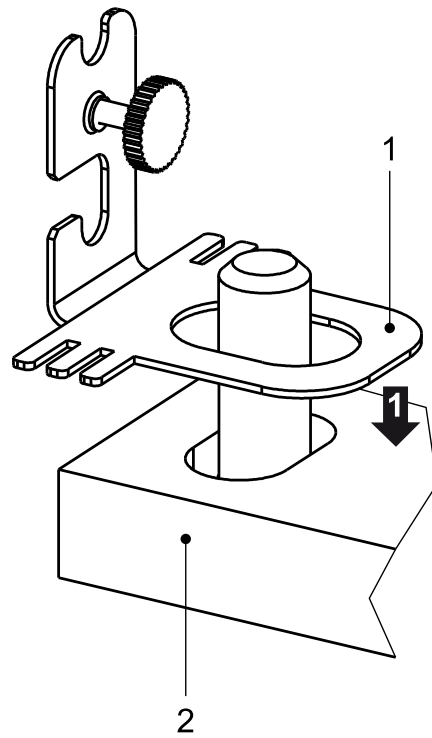
Minebea Intec recommends using a stainless-steel cable tie when mounting using a retaining plate.



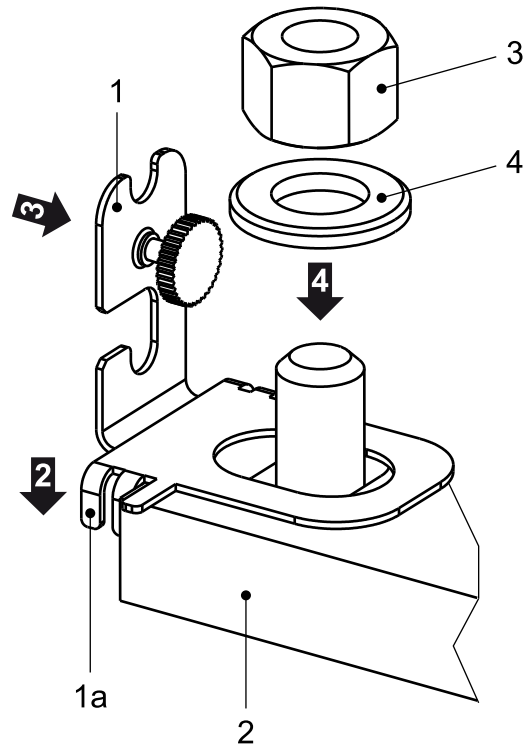
- ▶ Thread the stainless-steel cable tie through the lugs (1) on the retaining plate (2) and attach to the weighing device.

11.2.5.3.2 Mounting using a fixing bracket

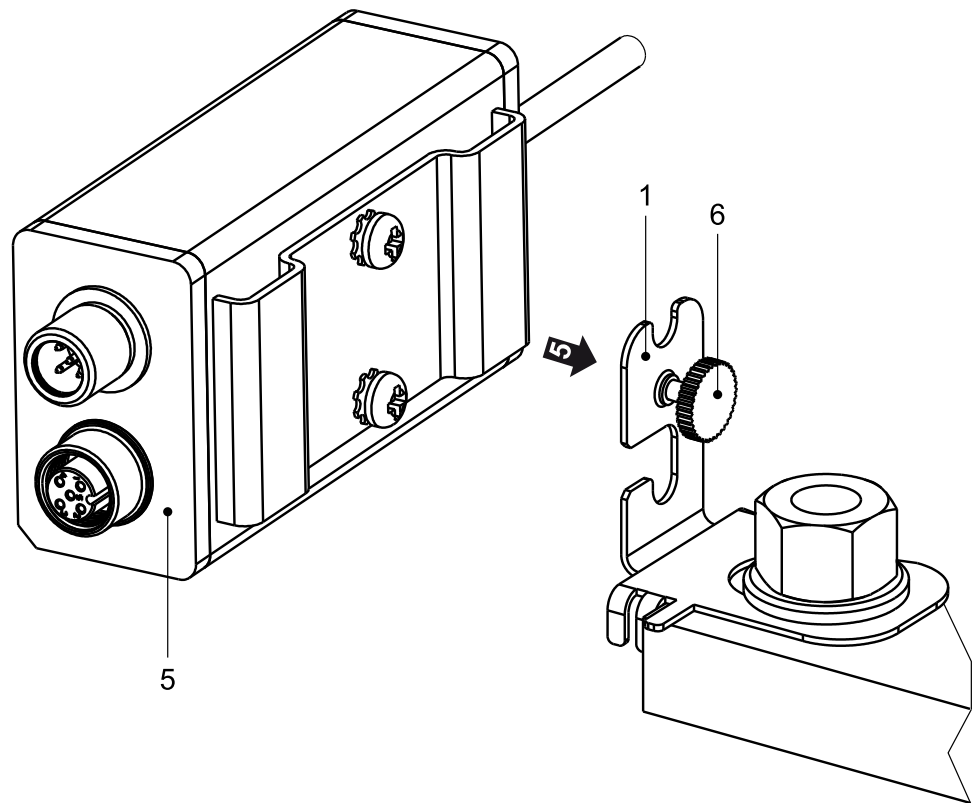
When using a fixing bracket, the Connexx module is attached to the mounting kit.



1. Place the fixing bracket (1) on the lower plate (2) of the mounting kit.



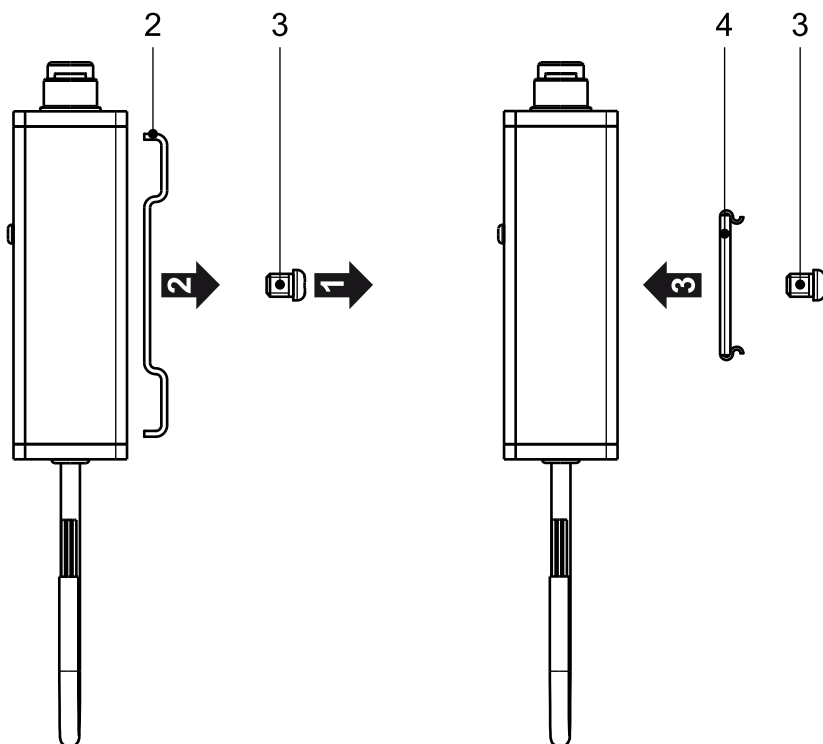
2. Depending on the mounting kit, bend the appropriate lugs (1a) downwards using a tool to prevent the fixing bracket from twisting.
3. Slide the fixing bracket (1) onto the lower plate (2) of the mounting kit.
4. Place one of the enclosed washers (4) over the bolt and tighten the nut (3).
The fixing bracket is now secured against twisting.



5. Mount the Connex module (5) on the fixing bracket (1).
6. Tighten the knurled screw (6) by hand to fix the module in place.

11.2.5.3.3 Mounting using a mounting rail holder

When using a mounting rail holder, the Connexx module is attached to the weighing device (e.g. frame with a mounting rail).



1. Remove the screw (3).
2. Remove the retaining plate (2).
3. Install the rail holder (4) and tighten the screws (3).
4. Click the Connexx Module into the rail holder.

11.2.5.4 Connecting parts for the Connexx module

To connect the Connexx module, the following connecting parts are required:

No.	Description	Order no.
1	PR 5510/05 CANopen interface for PR 5410	9405 355 10051
2	PR 6154/03 Connexx connecting kit for three load cells (comprising: 2× PR 6155/05, 1× PR 6152/25, 1× PR 6153/99)	9405 361 54031
3	PR 6154/04 Connexx connecting kit for four load cells (comprising: 3× PR 6155/05, 1× PR 6152/25, 1× PR 6153/99)	9405 361 54041
4	PR 6154/06 Connexx connecting kit for six load cells (comprising: 5× PR 6155/10, 1× PR 6152/25, 1× PR 6153/99)	9405 361 54061
5	PR 6154/08 Connexx connecting kit for eight load cells (comprising: 7× PR 6155/10, 1× PR 6152/25, 1× PR 6153/99)	9405 361 54081
6	PR 6155/05 Connecting cable between individual Connexx modules (M12 plug connector, male → M12 plug connector, female); 5 m	9405 361 55051
7	PR 6155/10 Connecting cable between individual Connexx modules (M12 plug connector, male → M12 plug connector, female); 10 m	9405 361 55101
8	PR 6152/10 Connecting cable between Connexx module and CANopen interface (M12 plug connector, female → D-Sub 9-pin plug connector, female); 10 m	9405 361 52101
9	PR 6152/11 Connecting cable between Connexx module and CANopen interface (M12 female → open cable ends incl. D-Sub 9-pin plug connector, female with screw connectors); 10 m	9405 361 52111
10	PR 6152/25 Connecting cable between Connexx module and CANopen interface (M12 plug connector, female → D-Sub 9-pin plug connector, female); 25 m	9405 361 52251
11	PR 6152/26 Connecting cable between Connexx module and CANopen interface (M12 plug connector, female → open cable ends incl. D-Sub 9-pin plug connector, female with screw connectors); 25 m	9405 361 52261
12	PR 6152/40 Connecting cable between Connexx module and CANopen interface (M12 plug connector, female → D-Sub 9-pin plug connector, female); 40 m	9405 361 52401
13	PR 6152/41 Connecting cable between Connexx module and CANopen interface (M12 plug connector, female → open cable ends incl. D-Sub 9-pin plug connector, female with screw connectors); 40 m	9405 361 52411
14	PR 6153/98 Split cable gland for connecting cable PR 6152/.. with D-Sub plug connector, female	9405 361 53981
15	PR 6153/ 99 Terminating resistor for Connexx module (M12 plug connector, male)	9405 361 53991

12 Certificates/safety instructions/control drawing

Ser. no.	Description	Document no.	see Chapter
1	EC-Type Examination Certificate	BVS 16 ATEX E 005	12.1
2	Certificate of Conformity	IECEX BVS 16.0005	12.2
3	EU-Type Examination Certificate	TÜV 03 ATEX 2301X	12.3
4	Certificate of Conformity	IECEX TUN 17.0025X	12.4
5	Manufacturer's Certificate	MIN16ATEX001X	12.5
6	Certificate of Conformity FM	FM17CA0138 FM17US0276	12.6 12.7
7	Control drawing FM	4012 101 5688	12.8
8	EU-Declaration of Conformity	MEU17034	12.9
9	Certificate of Conformity TR CU 020	RU Д-DE.A301.B.05345	12.10
10	Parts Certificate	DE-17-PC-PTB005	12.11
11	OIML Certificate of Conformity (PTB)	R60/2000-DE1-17.15	12.12
12	Certificate of Conformance (NTEP)	17-127	12.13
13	Certificate of Approval (NTEP-New York)	10045	12.14

12.1 BVS 16 ATEX E 005



(1) **EG-Baumusterprüfbescheinigung**

(2) Geräte und Schutzsysteme zur bestimmungsgemäßen Verwendung in explosionsgefährdeten Bereichen - Richtlinie 94/9/EG

(3) Nr. der EG-Baumusterprüfbescheinigung: **BVS 16 ATEX E 005**

(4) Gerät: **Wägezelle Typ PR62**/**E**

(5) Hersteller: **Sartorius Mechatronics T&H GmbH**

(6) Anschrift: **Meiendorfer Straße 205, 22145 Hamburg**

(7) Die Bauart dieses Gerätes sowie die verschiedenen zulässigen Ausführungen sind in der Anlage zu dieser Baumusterprüfbescheinigung festgelegt.

(8) Die Zertifizierungsstelle der DEKRA EXAM GmbH, benannte Stelle Nr. 0158 gemäß Artikel 9 der Richtlinie 94/9/EG des Europäischen Parlaments und des Rates vom 23. März 1994, bescheinigt, dass das Gerät die grundlegenden Sicherheits- und Gesundheitsanforderungen für die Konzeption und den Bau von Geräten und Schutzsystemen zur bestimmungsgemäßen Verwendung in explosionsgefährdeten Bereichen gemäß Anhang II der Richtlinie erfüllt. Die Ergebnisse der Prüfung sind in dem Prüfprotokoll BVS PP 16.2012 EG niedergelegt.

(9) Die grundlegenden Sicherheits- und Gesundheitsanforderungen werden erfüllt durch Übereinstimmung mit

EN 60079-0:2012 + A11:2013 Allgemeine Anforderungen
EN 60079-11:2012 Eigensicherheit „I“

(10) Falls das Zeichen „X“ hinter der Bescheinigungsnummer steht, wird in der Anlage zu dieser Bescheinigung auf besondere Bedingungen für die sichere Anwendung des Gerätes hingewiesen.

(11) Diese EG-Baumusterprüfbescheinigung bezieht sich nur auf die Konzeption und die Baumusterprüfung des beschriebenen Gerätes in Übereinstimmung mit der Richtlinie 94/9/EG. Für Herstellung und Inverkehrbringen des Gerätes sind weitere Anforderungen der Richtlinie zu erfüllen, die nicht durch diese Bescheinigung abgedeckt sind.

(12) Die Kennzeichnung des Gerätes muss die folgenden Angaben enthalten:

 **II 1G Ex ia IIC T6 Ga**

DEKRA EXAM GmbH
Bochum, den 20.01.2016




 Zertifizierungsstelle



 Fachbereich

Seite 1 von 2 zu BVS 16 ATEX E 005
Dieses Zertifikat darf nur vollständig und unverändert weiterverbreitet werden.
DEKRA EXAM GmbH, Dinnendahlstraße 9, 44809 Bochum, Deutschland
Telefon +49.234.3696-105, Telefax +49.234.3696-110, zs-exam@dekra.com





(13) Anlage zur

(14) **EG-Baumusterprüfbescheinigung
BVS 16 ATEX E 005**

(15) 15.1 Gegenstand und Typ

Wägezelle Typ PR62**/**E

Anstelle der *** werden in der vollständigen Benennung Buchstaben und Ziffern eingefügt, die unterschiedliche Typen kennzeichnen:

Wägezelle Typ PR62

*	*
---	---

 /

*	*	E
---	---	---

Unterschiedliche Ausführungen (01, 02, 11, 12, 21, 41, 46, 51, 61), die sich elektrisch und / oder mechanisch unterscheiden

Laststufe (nicht Ex-relevant, nur für Informationszwecke)

15.2 Beschreibung

Die Wägezellen dienen zur Umwandlung von Kraft in ein elektrisches Signal. Die Zellen haben ein Metallgehäuse mit eingebauten Dehnungsmessstreifen. Der elektrische Anschluss erfolgt über eine fest angeschlossene Leitung. Die Zellen sind „einfache elektrische Betriebsmittel“.

15.3 Kenngrößen

Spannung	Ui	DC	25	V
Strom	li		160	mA
Leistung	Pi		2	W
Umgebungstemperaturbereich	Ta		-30 °C bis +55 °C	


(16) Prüfprotokoll

BVS PP 16.2012 EG, Stand 20.01.2016

(17) Besondere Bedingungen für die sichere Anwendung

Keine

Seite 2 von 2 zu BVS 16 ATEX E 005
Dieses Zertifikat darf nur vollständig und unverändert weiterverbreitet werden.


 DEKRA EXAM GmbH, Dinnendahlstraße 9, 44809 Bochum, Deutschland
 Telefon +49.234.3696-105, Telefax +49.234.3696-110, zs-exam@dekra.com



Translation EC-Type Examination Certificate

- (1) **EC-Type Examination Certificate**
- (2) Equipment and protective systems intended for use in potentially explosive atmospheres - Directive 94/9/EC
- (3) No. of EC-Type Examination Certificate: **BVS 16 ATEX E 005**
- (4) Equipment: **Load cell type PR62**/*E**
- (5) Manufacturer: **Sartorius Mechatronics T&H GmbH**
- (6) Address: **Meiendorfer Straße 205, 22145 Hamburg, Germany**
- (7) The design and construction of this equipment and any acceptable variation thereto are specified in the appendix to this type examination certificate.
- (8) The certification body of DEKRA EXAM GmbH, notified body no. 0158 in accordance with Article 9 of the Directive 94/9/EC of the European Parliament and the Council of 23 March 1994, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres, given in Annex II to the Directive. The examination and test results are recorded in the Test and Assessment Report BVS PP 16.2012 EG.
- (9) The Essential Health and Safety Requirements are assured by compliance with:
 - EN 60079-0:2012 + A11:2013 General requirements**
 - EN 60079-11:2012 Intrinsic Safety "i"**
- (10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the appendix to this certificate.
- (11) This EC-Type Examination Certificate relates only to the design, examination and tests of the specified equipment in accordance to Directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment. These are not covered by this certificate.
- (12) The marking of the equipment shall include the following:



DEKRA EXAM GmbH
Bochum, dated 2016-01-20

Signed: Dr. Eickhoff


Certification body

Signed: Dr. Wittler

Special services unit

Page 1 of 2 of BVS 16 ATEX E 005
This certificate may only be reproduced in its entirety and without any change.

DEKRA EXAM GmbH, Dinnendahlstrasse 9, 44809 Bochum, Germany,
telephone +49.234.3696-105, Fax +49.234.3696-110, zs-exam@dekra.com



(13) Appendix to

(14) **EC-Type Examination Certificate**
BVS 16 ATEX E 005

(15) 15.1 Subject and type

Load cell type PR62**/**E

Instead of the *** in the complete denomination letters and numerals will be inserted which characterize different cell types:

Load cell type PR62

*	*
---	---

 /

*	*
---	---

 E

Different versions (01, 02, 11, 12, 21, 41, 46, 51, 61) which differ electrically and / or mechanically

Load level (not Ex relevant, for information purposes only)

15.2 Description

The load cells are used for converting a load into an electrical signal. The cells have a metal enclosure with inside fixed resistance strain gauges. The electrical connection is carried out by a permanently connected cable. The cells are "simple apparatus".

15.3 Parameters

Voltage	U _i	DC	25	V
Current	I _i		160	mA
Power	P _i		2	W
Ambient temperature range	T _a		-30 °C up to +55 °C	

(16) Test and Assessment Report

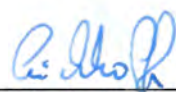
BVS PP 16.2012 EG as of 2016-01-20

(17) Special conditions for safe use


None

We confirm the correctness of the translation from the German original.
In the case of arbitration only the German wording shall be valid and binding.

DEKRA EXAM GmbH
44809 Bochum, 2016-01-20
BVS-/Hil/Schu/Mu A 20150360



 Certification body


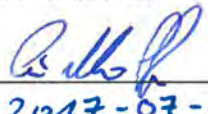



 Special services unit

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telephone +49.234.3696-105, Fax +49.234.3696-110, zs-exam@dekra.com

12.2 IECEx BVS 16.0005

	IECEX Certificate of Conformity	
INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres <small>for rules and details of the IECEx Scheme visit www.iecex.com</small>		
Certificate No.:	IECEX BVS 16.0005	issue No.:1
Status:	Current	Certificate history: Issue No. 1 (2017-7-6) Issue No. 0 (2016-1-21)
Date of Issue:	2017-07-06	Page 1 of 4
Applicant:	Minebea Intec GmbH Meiendorfer Straße 205 22145 Hamburg Germany	
Equipment: Optional accessory:	Load cell type PR 62**/*E	
Type of Protection:	Equipment protection by intrinsic safety "i"	
Marking:	Ex ia IIC T6 Ga	
Approved for issue on behalf of the IECEx Certification Body:	Dr. F. Eickhoff	
Position:	Deputy Head of Certification Body	
Signature: (for printed version)		
Date:	<u>2017-07-06</u>	
<p>1. This certificate and schedule may only be reproduced in full. 2. This certificate is not transferable and remains the property of the issuing body. 3. The Status and authenticity of this certificate may be verified by visiting the Official IECEx Website.</p>		
Certificate issued by:		
	DEKRA EXAM GmbH Dinnendahlstrasse 9 44809 Bochum Germany	
	On the safe side.	



IECEx Certificate of Conformity

Certificate No.: IECEx BVS 16.0005

Date of Issue: 2017-07-06

Issue No.: 1

Page 2 of 4

Manufacturer: **Minebea Intec GmbH**
Meiendorfer Straße 205
22145 Hamburg
Germany

Additional Manufacturing location(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

STANDARDS:

The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

IEC 60079-0 : 2011 Explosive atmospheres - Part 0: General requirements
Edition: 6.0

IEC 60079-11 : 2011 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition: 6.0

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in

Test Report:
DE/BVS/ExTR16.0007/00

Quality Assessment Report:

DE/PTB/QAR13.0007/02



IECEx Certificate of Conformity

Certificate No.: IECEx BVS 16.0005

Date of Issue: 2017-07-06

Issue No.: 1

Page 3 of 4

Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

General product information:

The load cells are used for converting a load into an electrical signal.
 The cells have a metal enclosure with inside fixed resistance strain gauges.
 The electrical connection is carried out by a permanently connected cable.
 The cells are "simple apparatus".



Technical parameters

Voltage	Ui	DC	25 V
Current	Ii		160 mA
Power	Pi		2 W
Ambient temperature range	Ta		-30 °C up to +55 °C

Type Designation

See Annex

SPECIFIC CONDITIONS OF USE: NO



IECEX Certificate of Conformity



Certificate No.:	IECEX BVS 16.0005	Issue No.: 1
Date of Issue:	2017-07-06	Page 4 of 4

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

The reason for this new issue is the change of the company's name from Sartorius Mechatronics T&H GmbH to Minebea Intec GmbH. Therefore the appropriate QAR was linked to this certificate.

Annex: [BVS_16_0005_Minebea_Annex_issue1.pdf](#)

12.3 TÜV 03 ATEX 2301X

(1) **EU-Baumusterprüfbescheinigung**

(2) Geräte und Schutzsysteme zur bestimmungsgemäßen Verwendung in explosionsgefährdeten Bereichen, Richtlinie 2014/34/EU

(3) **Bescheinigungsnummer:** TÜV 03 ATEX 2301 X **Ausgabe:** 00

(4) für das Produkt: Wägezellen Typ PR 62.../.. und MP76/...

(5) des Herstellers: Minebea Intec GmbH

(6) Anschrift: Meiendorfer Str. 205 A, 22145 Hamburg

Auftragsnummer: 8000475687

Ausstellungsdatum: 14.11.2017

(7) Die Bauart dieses Produktes sowie die verschiedenen zulässigen Ausführungen sind in der Anlage und den darin aufgeführten Unterlagen zu dieser EU-Baumusterprüfbescheinigung festgelegt.


(8) Die TÜV NORD CERT GmbH bescheinigt als notifizierte Stelle Nr. 0044 nach Artikel 17 der Richtlinie 2014/34/EU des Europäischen Parlaments und des Rates vom 26. Februar 2014 die Erfüllung der wesentlichen Gesundheits- und Sicherheitsanforderungen für die Konzeption und den Bau dieses Produktes zur bestimmungsgemäßen Verwendung in explosionsgefährdeten Bereichen gemäß Anhang II der Richtlinie.
Die Ergebnisse der Prüfung sind in dem vertraulichen ATEX Prüfungsbericht Nr. 17 203 206448 festgelegt.

9) Die wesentlichen Gesundheits- und Sicherheitsanforderungen werden erfüllt durch Übereinstimmung mit:
EN 60079-0:2012+A11:2013 EN 60079-31:2014
ausgenommen die unter Abschnitt 18 der Anlage gelisteten Anforderungen.

(10) Falls das Zeichen "X" hinter der Bescheinigungsnummer steht, wird auf die Besonderen Bedingungen für die Verwendung des Produktes in der Anlage zu dieser Bescheinigung hingewiesen.

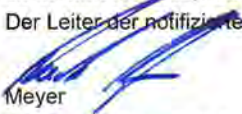
(11) Diese EU-Baumusterprüfbescheinigung bezieht sich nur auf Konzeption und Prüfung des festgelegten Produktes. Weitere Anforderungen dieser Richtlinie gelten für die Herstellung und das Bereitstellen dieses Produktes. Diese Anforderungen werden nicht durch diese Bescheinigung abgedeckt.

(12) Die Kennzeichnung des Produktes muss die folgenden Angaben enthalten:

 II 1 D Ex ta IIIC T160 °C Da

TÜV NORD CERT GmbH, Langemarkstraße 20, 45141 Essen, notifiziert durch die Zentralstelle der Länder für Sicherheitstechnik (ZLS), Ident. Nr. 0044, Rechtsnachfolger der TÜV NORD CERT GmbH & Co. KG Ident. Nr. 0032

Der Leiter der notifizierten Stelle


Meyer

Geschäftsstelle Hannover, Am TÜV 1, 30519 Hannover, Tel. +49 511 998-61455, Fax +49 511 998-61590

Diese Bescheinigung darf nur unverändert weiterverbreitet werden.
Auszüge oder Änderungen bedürfen der Genehmigung der TÜV NORD CERT GmbH

P17-F-001 Rev. 01/014.16
Seite 1/3

(13) **ANLAGE**(14) **EU-Baumusterprüfbescheinigung Nr. TÜV 03 ATEX 2301 X Ausgabe 00**

(15) Beschreibung des Produktes

Die Wägezellen Typen PR62../... und MP76/... gemäß der unten aufgeführten Tabelle dienen zur Messung von Kräften mittels einer DMS Brücke mit Kompensations- und Abgleichwiderständen. Die Gehäuse der Wägezellen sowie die eingesetzten Membranen bestehen aus Edelstahl. Alle Gehäuseteile und die Membranen sind gasdicht verschweißt. Die Wägezellen dürfen in durch Staub explosionsgefährdeten Bereichen für EPL Da-Betriebsmittel bzw. EPL Db-Betriebsmittel installiert werden.

Der zulässige Umgebungstemperaturbereich beträgt -20 °C ... 55°C.

Auflistung der Typen und Gehäuseformen

Typen	Gehäuseform
PR 6201/...	Zylinder
PR 6202/...	Zylinder
PR 6203/...	Zylinder
PR 6221/...	Zylinder
PR 6211/...	Kreisplatte
PR 6212/...	Kreisplatte
PR 6251/...	Kreisplatte
PR 6261/...	Kreisplatte
PR 6241/...	S-Form
PR 6246/...	S-Form
MP 76/...	S-Form

Elektrische Daten

Versorgungs- und
Signalstromkreis
(fest angeschlossenes Kabel)

nur zum Anschluss an einen bescheinigten
eigensicheren Stromkreis

Höchstwert:

$P_i = 2 \text{ W}$

Die wirksame innere Induktivität und Kapazität sind vernachlässigbar klein.

Verwendung als EPL Da-Betriebsmittel

Schutzniveau des Stromkreises: ia

Verwendung als EPL Db-Betriebsmittel

Schutzniveau des Stromkreises: ia oder ib

(16) Zeichnungen und Dokumente sind im ATEX Prüfungsbericht Nr. 17 203 206448 aufgelistet.



Anlage zur EU-Baumusterprüfbescheinigung Nr. TÜV 03 ATEX 2103 X Ausgabe 00

(17) Besondere Bedingungen für die Verwendung

1. Die freien Leitungsenden der Anschlüsse sind außerhalb des explosionsgefährdeten Bereiches oder in einem geeigneten, für den Einsatz in durch Staub explosionsgefährdeten Bereichen bescheinigten Klemmenkasten zu verdrahten.

2. Der Anschluss von nichteigensicheren Stromkreisen



- mit einer sicheren Begrenzung der verfügbaren Leistung auf 2W und
 - einer sicheren galvanischen Trennung vom Erdpotential (für Wägezellen ohne zusätzlichen Erdanschluss erforderlich)
- an die Wägezellen mit EPL Db ist zulässig.


3. Die Wägezellen sind so zu errichten, dass die Gehäuse sicher mit Erdpotential verbunden sind (z. B. über die Erdungsklemme; die Betriebsanleitung des Herstellers ist zu beachten).

(18) Wesentliche Gesundheits- und Sicherheitsanforderungen

keine zusätzlichen

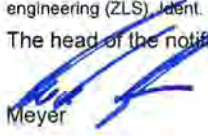
- Ende der Bescheinigung -

<p>(1) Translation EU-Type Examination Certificate</p> <p>(2) Equipment and protective systems intended for use in potentially explosive atmospheres, Directive 2014/34/EU</p> <p>(3) Certificate Number TÜV 03 ATEX 2301 X issue: 00</p> <p>(4) for the product: Load cell type PR 62../... and MP76/...</p> <p>(5) of the manufacturer: Minebea Intec GmbH</p> <p>(6) Address: Meiendorfer Str. 205 A, 22145 Hamburg</p> <p>Order number: 8000475687</p> <p>Date of issue: 2017-11-14</p> <p>(7) The design of this product and any acceptable variation thereto are specified in the schedule to this EU-Type Examination Certificate and the documents therein referred to.</p> <p>(8) The TÜV NORD CERT GmbH, Notified Body No. 0044, in accordance with Article 17 of the Directive 2014/34/EU of the European Parliament and the Council of 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive. The examination and test results are recorded in the confidential ATEX Assessment Report No. 17 203 206448.</p> <p>(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with: EN 60079-0:2012+A11:2013 EN 60079-31:2012 except in respect of those requirements listed at item 18 of the schedule.</p> <p>(10) If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions for Use specified in the schedule to this certificate.</p> <p>11) This EU-Type Examination Certificate relates only to the design, and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this equipment. These are not covered by this certificate.</p> <p>(12) The marking of the product shall include the following:</p>	 
---	--

 II 1 D Ex ta IIIC T160 °C Da

TÜV NORD CERT GmbH, Langemarckstraße 20, 45141 Essen, notified by the central office of the countries for safety engineering (ZLS), Ident. Nr. 0044, legal successor of the TÜV NORD CERT GmbH & Co. KG Ident. Nr. 0032

The head of the notified body


Meyer

Hanover office, Am TÜV 1, 30519 Hannover, Tel. +49 511 998-61455, Fax +49 511 998-61590

This certificate may only be reproduced without any change, schedule included.
Excerpts or changes shall be allowed by the TÜV NORD CERT GmbH

P17-F-011 Rev. 01/04.16 page 1/3



(13) **SCHEDULE**

(14) **EU-Type Examination Certificate No. TÜV 03 ATEX 2301 X issue 00**

(15) Description of product

The load cells type PR62../... and MP76/... according to the table mentioned below are used for measuring forces by means of a strain gauge with resistors for compensation and adjustment.
 The housings of the load cells as well as the used membranes consist of stainless steel. All parts of the housing and the membranes are welded gas-tight.
 The load cells are allowed to be installed in explosion hazardous areas caused by dust for EPL Da apparatus resp. for EPL Db apparatus.
 The permissible ambient temperature range is -20 °C ... 55 °C.

Listing of types and shape of housings

Types	Shape of housing
PR 6201/...	Cylinder
PR 6202/...	Cylinder
PR 6203/...	Cylinder
PR 6221/...	Cylinder
PR 6211/...	Circle plate
PR 6212/...	Circle plate
PR 6251/...	Circle plate
PR 6261/...	Circle plate
PR 6241/...	S-shape
PR 6246/...	S-shape
MP 76/...	S-shape

Supply- and signal circuit
 (Cable connected fixed)

only for connection to a certified intrinsically safe circuit
 Maximum value:
 $P_i = 2 \text{ W}$
 The effective internal inductance and capacitance are negligibly small.
Use as EPL Da apparatus
 Level of protection of the circuit: ia
Use as EPL Db apparatus
 Level of protection of the circuit: ia or ib

(16) Drawings and documents are listed in the ATEX Assessment Report No. 17 203 206448



Schedule to EU-Type Examination Certificate No. TÜV 03 ATEX 2301 X issue 00

(17) Specific Conditions for Use

1. The free cable ends of the connections have to be wired outside of the explosion hazardous area or in a suitable terminal box, suitably certified for the application in explosion hazardous areas caused by dust.

2. The connection of non-intrinsically safe circuits
- with a safe limitation of the available power of 2 W and
- a safe galvanic separation from earth potential (necessary for load cells without an additional earth connection)
to the load cells of EPL Db is permissible.

3. The load cells have to be installed in such a way, that the housings are safely connected with earth potential (e. g. via the earth terminal; observe manual of the manufacturer).

(18) Essential Health and Safety Requirements



no additional ones

- End of Certificate -

12.4 IECEx TUN 17.0025X

		<h2 style="text-align: right;">IECEX Certificate of Conformity</h2>	
<p>INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres <small>for rules and details of the IECEx Scheme visit www.iecex.com</small></p>			
Certificate No.:	IECEX TUN 17.0025X	issue No.:0	Certificate history:
Status:	Current		
Date of Issue:	2017-11-14	Page 1 of 3	
Applicant:	Minebea Intec GmbH Meiendorfer Str. 205 22145 Hamburg Germany		
Equipment: <i>Optional accessory:</i>	Weighing cells type PR 62.. /... and MP76/...		
Type of Protection:	Equipment dust ignition protection by enclosure "t"		
Marking:	Ex ta IIIC T160°C Da		
Approved for issue on behalf of the IECEx Certification Body:	Andreas Meyer		
Position:	Head of IECEx Certification Body		
Signature: <i>(for printed version)</i>			
Date:			
1. This certificate and schedule may only be reproduced in full. 2. This certificate is not transferable and remains the property of the issuing body. 3. The Status and authenticity of this certificate may be verified by visiting the Official IECEx Website .			
Certificate issued by:			
TÜV NORD CERT GmbH Hanover Office Am TÜV 1, 30519 Hannover Germany			

		IECEX Certificate of Conformity	
Certificate No.:	IECEX TUN 17.0025X	Issue No.:	0
Date of Issue:	2017-11-14	Page 2 of 3	
Manufacturer:	Minebea Intec GmbH Meiendorfer Str. 205 22145 Hamburg Germany		
Additional Manufacturing location(s):			
<p>This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules. IECEx 02 and Operational Documents as amended.</p>			
STANDARDS: The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:			
IEC 60079-0 : 2011 Edition: 6.0	Explosive atmospheres - Part 0: General requirements		
IEC 60079-31 : 2013 Edition: 2	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "I"		
<p><i>This Certificate does not indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.</i></p>			
TEST & ASSESSMENT REPORTS: A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in			
<u>Test Report:</u> DE/TUN/EXTR17.0023/00			
<u>Quality Assessment Report:</u> DE/PTB/QAR13.0007/02			

IECEX Certificate of Conformity

Certificate No.:	IECEX TUN 17.0025X	
Date of Issue:	2017-11-14	Issue No.: 0
		Page 3 of 3

Schedule

EQUIPMENT:
Equipment and systems covered by this certificate are as follows:

The load cells type PR62./... and MP76/... according to the table mentioned below are used for measuring forces by means of a strain gauge with resistors for compensation and adjustment.
 The housings of the load cells as well as the used membranes consist of stainless steel. All parts of the housing and the membranes are welded gas-tight.
 The load cells are allowed to be installed in explosion hazardous areas caused by dust for EPL Da apparatus resp. for EPL Db apparatus.
 The permissible ambient temperature range is -20 °C ... +55 °C.

See attachment for further details.

SPECIFIC CONDITIONS OF USE: YES as shown below:

- 1.The free cable ends of the connections have to be wired outside of the explosion hazardous area or in a suitable terminal box, certified for the application in explosion hazardous areas caused by dust.
- 2.The connection of non intrinsically safe circuits
 - with a safe limitation of the available power of 2W and
 - a safe galvanic separation from earth potential (necessary for load cells without an additional earth connection)
 to the load cells of the category 2 is permissible.
- 3.The load cells have to be installed in such a way, that the housings are connected with earth potential.

Annex: _Attachment_load cells TUN 17.0025 X (2).pdf

TÜV NORD CERT GmbH
 Hanover Office
 Am TÜV 1
 30519 Hannover
 Germany



Page 1 of 1
 Attachment to IECEx TUN 17.0025 X issue 00

The load cells type PR62./... and MP76/... according to the table mentioned below are used for measuring forces by means of a strain gauge with resistors for compensation and adjustment. The housings of the load cells as well as the used membranes consist of stainless steel. All parts of the housing and the membranes are welded gas-tight. The load cells are allowed to be installed in explosion hazardous areas caused by dust for category 1 apparatus resp. for category 2 apparatus. The permissible ambient temperature range is -20 °C ... 55 °C.

Listing of types and shape of housings

Types	Shape of housing
PR 6201/...	Cylinder
PR 6202/...	Cylinder
PR 6203/...	Cylinder
PR 6221/...	Cylinder
PR 6211/...	Circle plate
PR 6212/...	Circle plate
PR 6251/...	Circle plate
PR 6261/...	Circle plate
PR 6241/...	S-shape
PR 6246/...	S-shape
MP 76/...	S-shape

Supply- and signal circuit
 (Cable connected fixed)

only for connection to a certified intrinsically safe circuit

Maximum value:
 $P_i = 2 \text{ W}$

The effective internal inductance and capacitance are negligibly small.

Use as category 1 apparatus

Level of protection of the circuit: ia

Use as category 2 apparatus

Level of protection of the circuit: ia or ib

Specific Conditions of Use

1. The free cable ends of the connections have to be wired outside of the explosion hazardous area or in a suitable terminal box, suitably certified for the application in explosion hazardous areas caused by dust.
2. The connection of non intrinsically safe circuits
 - with a safe limitation of the available power of 2 W and
 - a safe galvanic separation from earth potential (necessary for load cells without an additional earth connection)
 to the load cells of the category 2 is permissible.
3. The load cells have to be installed in such a way, that the housings are safely connected with earth potential (e. g. via the earth terminal; observe manual of the manufacturer).

12.5 MIN16ATEX001X



Herstellerbescheinigung
Manufacturer's certificate



Nummer <i>Number</i>	MIN16ATEX001X
Hersteller <i>Manufacturer</i>	Minebea Intec GmbH Meiendorfer Straße 205A 22145 Hamburg, Germany
erklärt in alleiniger Verantwortung, dass das Produkt <i>declares under sole responsibility that the product</i>	
Geräteart <i>Device type</i>	Wägezelle <i>Load cell</i>
Baureihe <i>Type series</i>	PR 6201, PR 6202, PR 6203, PR 6207, PR 6211 D1(500kg-10t), PR 6212, PR 6221, PR 6241, PR 6246, PR 6251, PR 6261 (ohne Typ / without type LA or LT)

auf das sich diese Bescheinigung bezieht, mit der/den folgenden Norm(en) oder normativen Dokument(en) übereinstimmt (siehe Seite 2) gemäß den Bestimmungen der „Richtlinie 2014/34/EU des Europäischen Parlaments und des Rates vom 26. Februar 2014 zur Harmonisierung der Rechtsvorschriften der Mitgliedstaaten für Geräte und Schutzsysteme zur bestimmungsgemäßen Verwendung in explosionsgefährdeten Bereichen“. Das Produkt wird wie folgt gekennzeichnet:
to which this certification relates is in conformity with the following standard(s) or other normative document(s) (see page 2) pursuant to the provisions of the "Directive 2014/34/EU of the European Parliament and of the Council of 26 February 2014 on the harmonisation of the laws of the Member States relating to equipment and protective systems intended for use in potentially explosive atmospheres". This product is labelled as follows:

Kennzeichnung <i>Marking</i>	II 3G Ex nA IIC T6 Gc II 3D Ex tc IIIC T85°C Dc MIN16ATEX001X
	Minebea Intec GmbH Hamburg, 14.07.2022


 Dr. K. Sommer
 Managing Director


 Dr. A. Böttger
 CTO


 Torben Hiller
 Ex Approval Manager

Diese Erklärung bescheinigt die Übereinstimmung mit den genannten EU-Richtlinien, ist jedoch keine Zusicherung von Eigenschaften. Bei einer mit uns nicht abgestimmten Änderung des Produktes verliert diese Erklärung ihre Gültigkeit. Die Sicherheitshinweise der zugehörigen Produktdokumentation sind zu beachten.
This declaration certifies conformity with the above mentioned EC Directives, but does not guarantee product attributes. Unauthorized product modifications make this declaration invalid. The safety information in the associated product documentation must be observed.

1/2

MIN16ATEX001X Rev. 6



Herstellerbescheinigung Manufacturer's certificate



Die grundlegenden Sicherheits- und Gesundheitsanforderungen werden erfüllt durch Übereinstimmung mit:

Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

Normen Standards

EN IEC 60079-0:2018

Explosionsgefährdete Bereiche – Teil 0: Geräte – Allgemeine Anforderungen
Explosive atmospheres – Part 0: Equipment – General requirements

EN 60079-15:2010

Explosionsfähige Atmosphäre – Teil 15: Geräteschutz durch Zündschutzart „n“
Explosive atmospheres – Part 15: Equipment protection by type of protection „n“

EN 60079-31:2014

Explosionsfähige Atmosphäre – Teil 31: Geräte-Staubexplosionsschutz durch Gehäuse „t“
Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure „t“

Diese Bescheinigung wurde auf Basis des folgenden Prüfberichts erstellt:

This certificate was drawn on the basis of the following test report:

Prüfbericht Test Report

MTR17001

Minebea Intec GmbH, Hamburg, Germany

Sicherheitshinweise Safety instructions

949905947901

Umgebungstemperatur Ambient temperature

-30°C ... +55°C

IP-Schutz IP protection

IP6X

Für diese Produkt gelten folgende besonderen Bedingungen für den sicheren Gebrauch:

For this product the following special conditions for safe use apply:

besondere Bedingungen special Conditions


Für Anwendungen in Umgebungen mit brennbaren Stäuben ist eine elektrostatische Aufladung zu vermeiden.

For application in environments with combustible dust, electrostatic charging shall be avoided.

Bei Verwendung der Zündschutzart "Ex nA" ist eine Transientenschutzvorrichtung vorzusehen welche einen Maximalwert von 140% des Spitzenspannungswertes von 85V sicherstellt.

When applied in type of protection non sparking "Ex nA", a transient protection device shall be set at a level not exceeding 140% of the peak rated voltage value of 85 V.

12.6 FM17CA0138




CERTIFICATE OF CONFORMITY

1. HAZARDOUS LOCATION ELECTRICAL EQUIPMENT PER CANADIAN REQUIREMENTS
2. Certificate No: FM17CA0138
3. Equipment: Model PR 6201, PR 6202, PR 6203, PR 6211, PR 6212, PR 6221, PR 6241, PR 6246, PR 6251, PR 6261 Load Cells
(Type Reference and Name)
4. Name of Listing Company: Minebea Intec GmbH
5. Address of Listing Company: Meien dorfer Str. 205A
22145 Hamburg
Germany
6. The examination and test results are recorded in confidential report number:
3053046 dated 22nd July 2014
7. FM Approvals LLC, certifies that the equipment described has been found to comply with the following Approval standards and other documents:
CAN/CSA-C22.2 No. 213: 2013, CAN-C22.2 No. 157-92: 2012,
CSA-C22.2 No. 1010.1: 2004, CAN/CSA-C22.2 No. 25: 2009
8. If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to specific conditions of use specified in the schedule to this certificate.
9. This certificate relates to the design, examination and testing of the products specified herein. The FM Approvals surveillance audit program has further determined that the manufacturing processes and quality control procedures in place are satisfactory to manufacture the product as examined, tested and Approved.
10. Equipment Ratings:

Intrinsically safe (Entity) for use in Class I, II and III Division 1, Groups A, B, C, D, E, F and G indoor and outdoor Hazardous Locations, Temperature Class T4A Ta= -40°C to +70°C and T5 Ta= -40°C to +55°C when installed per Control Drawing 4012 101 5688.

Nonincendive (NIFW) for use in Class I, Division 2, Groups A, B, C, and D indoor and outdoor Hazardous Locations, Temperature Class T4A Ta= -40°C to +70°C and T5 Ta= -40°C to +55°C when installed per Control Drawing 4012 101 5688.

Certificate issued by:



J.E. Marquardt
VP, Manager - Electrical Systems


30 July 2020
Date

To verify the availability of the Approved product, please refer to www.fmaprovals.com

THIS CERTIFICATE MAY ONLY BE REPRODUCED IN ITS ENTIRETY AND WITHOUT CHANGE

FM Approvals LLC, 1151 Boston-Providence Turnpike, Norwood, MA 02062 USA
 T: +1 (1) 781 762 4300 F: +1 (1) 781 762 9375 E-mail: information@fmaprovals.com www.fmaprovals.com

F 349 (Mar 16)
Page 1 of 3

<u>SCHEDULE</u>	
	
Canadian Certificate Of Conformity No: FM17CA0138	
Dust Ignition protected for Class II, III Division 2, Groups E, F and G indoor and outdoor Hazardous Locations, Temperature Class T4A Ta= -40°C to +70°C and T5 Ta= -40°C to +55°C when installed per Control Drawing 4012 101 5688	
11. The marking of the equipment shall include:	IS CL I, II, III, DIV 1, GP A,B,C,D,E,F,G Entity - 4012 101 5688 NI CL I, II, III, DIV 2, GP A,B,C,D, E, F, G - 4012 101 5688; NIFW T4A Ta= -40°C to 70°C; T5 Ta= -40°C to 55°C
12. Description of Equipment:	<p>General - The Model PR 62xx Series Load Cells are precision compression load cells designed to meet the specific requirements of a wide range of weighing installations.</p> <p>Construction - The Model PR 62xx Series Load Cells are constructed of welded stainless steel, hermetically sealed, and filled with inert gas.</p> <p>Ratings - The Model PR 62xx Series Load Cells are rated for an operating temperature range of -40°C to 70°C. Entity and Nonincendive Field Wiring parameters are as defined below.</p> <p>PR 62a/bc d e. Load Cell.</p> <p>Entity/Nonincendive Field Wiring Parameters: Ui = 25 V, Ii = 160 mA, Pi = 2 W; Ci= 0 µF, Li= 0 mH.</p> <p>a = 01, 02, 03, 11, 12, 21, 41, 46, 51, 61 b = up to three numbers denoting the maximum capacity (may be separated by a dot) c = Unit of measurement: blank or t d = Accuracy: up to three numbers or letters (may be separated by dots) e = Special: F or blank</p>
13. Specific Conditions of Use:	None
14. Test and Assessment Procedure and Conditions:	This Certificate has been issued in accordance with FM Approvals Canadian Certification Scheme.
15. Schedule Drawings	A copy of the technical documentation has been kept by FM Approvals.
16. Certificate History	Details of the supplements to this certificate are described below:
<u>THIS CERTIFICATE MAY ONLY BE REPRODUCED IN ITS ENTIRETY AND WITHOUT CHANGE</u>	
FM Approvals LLC, 1151 Boston-Providence Turnpike, Norwood, MA 02062 USA T: +1 (1) 781 762 4300 F: +1 (1) 781 762 9375 E-mail: information@fmapprovals.com www.fmapprovals.com	
F 348 (Mar 16)	Page 2 of 3

SCHEDULE



Canadian Certificate Of Conformity No: FM17CA0138

Date	Description
22 nd July 2014	Original Issue.
6 th October 2017	<u>Supplement 3:</u> Report Reference: – RR210028 dated 6 th October 2017. Description of the Change: Company name change from Sartorius Mechatronics T&H GmbH. Certificate reformed.
10 th November 2017	<u>Supplement 4:</u> Report Reference: – RR211742 dated 10 th November 2017. Description of the Change: Addition of option a = 03.
24 th October 2018	<u>Supplement 5:</u> Report Reference: – RR215447 dated 24 th October 2018 . Description of the Change: Update lower operating temperatures from -30°C to -40°C.
30 th July 2020	<u>Supplement 6:</u> Report Reference: – RR224030 dated 30 th July 2020. Description of the Change: Added load cell variation PR 6261.




THIS CERTIFICATE MAY ONLY BE REPRODUCED IN ITS ENTIRETY AND WITHOUT CHANGE

FM Approvals LLC, 1151 Boston-Providence Turnpike, Norwood, MA 02062 USA
 T: +1 (1) 781 762 4300 F: +1 (1) 781 762 9375 E-mail: information@fmaprovals.com www.fmaprovals.com

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12.7 FM17US0276



CERTIFICATE OF CONFORMITY

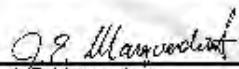
1. HAZARDOUS (CLASSIFIED) LOCATION ELECTRICAL EQUIPMENT PER US REQUIREMENTS
2. Certificate No: FM17US0276
3. Equipment: Model PR 6201, PR 6202, PR 6203, PR 6211, PR 6212, PR 6221, PR 6241, PR 6246, PR 6251, PR 6261 Load Cells
(Type Reference and Name)
4. Name of Listing Company: Minebea Intec GmbH
5. Address of Listing Company: Majendorfer Str. 205A
22145 Hamburg
Germany
6. The examination and test results are recorded in confidential report number:

3001200 dated 12th August 1999
7. FM Approvals LLC, certifies that the equipment described has been found to comply with the following Approval standards and other documents:

FM Class 3600:2018, FM Class 3610:2010, FM Class 3611:2004, FM Class 3810:2005
8. If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to specific conditions of use specified in the schedule to this certificate.
9. This certificate relates to the design, examination and testing of the products specified herein. The FM Approvals surveillance audit program has further determined that the manufacturing processes and quality control procedures in place are satisfactory to manufacture the product as examined, tested and Approved.
10. Equipment Ratings:

Intrinsically safe (Entity) for use in Class I, II and III Division 1, Groups A, B, C, D, E, F and G indoor and outdoor Hazardous (C classified) Locations, Temperature Class T4A Ta= -40°C to +70°C and T5 Ta= -40°C to +55°C when installed per Control Drawing 4012 101 5688.
Nonincendive (NIFW) for use in Class I, II and III Division 2, Groups A, B, C, D, E, F and G indoor and outdoor Hazardous (C classified) Locations, Temperature Class T4A Ta= -40°C to +70°C and T5 Ta= -40°C to +55°C when installed per Control Drawing 4012 101 5688.

Certificate issued by:



 J/E. Marquardt
 VP, Manager - Electrical Systems

 30 July 2020
 Date

To verify the availability of the Approved product, please refer to www.fmaprovalsguide.com


THIS CERTIFICATE MAY ONLY BE REPRODUCED IN ITS ENTIRETY AND WITHOUT CHANGE

FM Approvals LLC, 1151 Boston-Providence Turnpike, Norwood, MA 02062 USA
 T: +1 (1) 781 762 4300 F: +1 (1) 781 762 9375 E-mail: inquiries@fmaprovals.com, www.fmaprovals.com

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SCHEDULE

US Certificate Of Conformity No: FM17US0276



Member of the FM Global Group

11. The marking of the equipment shall include:

IS CL I, II, III, DIV 1, GP A,B,C,D,E,F,G Entity - 4012 101 5688
 NI CL I, II, III, DIV 2, GP A,B,C,D,E,F,G - 4012 101 5688; NIFW
 T4A Ta= -40°C to 70°C; T5 Ta= -40°C to 55°C

12. **Description of Equipment:**

General - The Model PR 62xx Series Load Cells are precision compression load cells designed to meet the specific requirements of a wide range of weighing installations.

Construction - The Model PR 62xx Series Load Cells are constructed of welded stainless steel, hermetically sealed, and filled with inert gas.

Ratings - The Model PR 62xx Series Load Cells are rated for an operating temperature range of -40°C to 70°C. Entity and Nonincendive Field Wiring parameters are as defined below.

PR 62a/bc d e. Load Cell.

Entity/Nonincendive Field Wiring Parameters:
 Ui = 25 V, Ii = 160 mA, Pi = 2 W; Ci = 0 µF, Li = 0 mH.

a = 01, 02, 03, 11, 12, 21, 41, 46, 51, 61
 b = up to three numbers denoting the maximum capacity (may be separated by a dot)
 c = Unit of measurement: blank or t
 d = Accuracy: up to three numbers or letters (may be separated by dots)
 e = Special: F or blank

13. **Specific Conditions of Use:**

None

14. **Test and Assessment Procedure and Conditions:**

This Certificate has been issued in accordance with FM Approvals US Certification Requirements.

15. **Schedule Drawings**

A copy of the technical documentation has been kept by FM Approvals.

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FM Approvals LLC, 1151 Boston-Providence Turnpike, Norwood, MA 02062 USA
 T: +1 (1) 781 762 4300 F: +1 (1) 781 762 9375 E-mail: information@fmaprovals.com www.fmaprovals.com

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SCHEDULE

US Certificate Of Conformity No: FM17US0276



Member of the FM Global Group

16. Certificate History

Details of the supplements to this certificate are described below:

Date	Description
12 th August 1999	Original Issue.
6 th October 2017	<u>Supplement 7:</u> Report Reference: – RR210028 dated 6 th October 2017. Description of the Change: Company name change from Sartorius Mechatronics T&H GmbH. Certificate reformed.
10 th November 2017	<u>Supplement 8:</u> Report Reference: – RR211742 dated 10 th November 2017. Description of the Change: Addition of option a = 03.
24 th October 2018	<u>Supplement 9:</u> Report Reference: – RR215447 dated 24 th October 2018. Description of the Change: Update lower operating temperatures from -30°C to -40°C. Update FM Class 3600 from 2011 to 2018.
30 th July 2020	<u>Supplement 10:</u> Report Reference: – RR224030 dated 30 th July 2020. Description of the Change: Added load cell variation PR 6261.

THIS CERTIFICATE MAY ONLY BE REPRODUCED IN ITS ENTIRETY AND WITHOUT CHANGE

FM Approvals LLC, 1151 Boston-Providence Turnpike, Norwood, MA 02062 USA
T: +1 (1) 781 762 4300 F: +1 (1) 781 762 9375 E-mail: information@fmaprovals.com www.fmaprovals.com

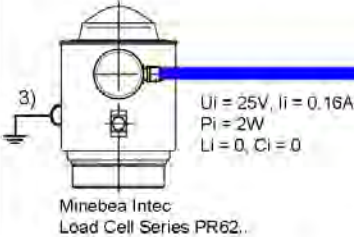
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12.8 4012 101 5688

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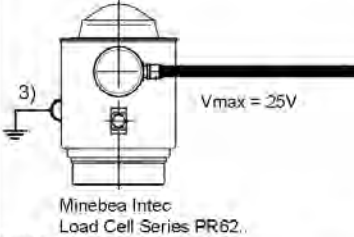
Hazardous (Classified) Location
Class I, II, III, Division 1, Groups A,B,C,D,E,F,G



4)

FM Approved Apparatus (USA) or product is suitably certified for use in Canada with Entity Concept parameters (see note 5) (Vo, Io, Co, Lo) appropriate for connection to intrinsically safe apparatus with Entity Concept parameters

Hazardous (Classified) Location
Class I, II, III, Division 2, Groups A,B,C,D,E,F,G



4)


FM Approved Apparatus (USA) or product is suitably certified for use in Canada with nonincendive field wiring and output voltage of 25Vmax to the load cells.

Notes

- 1) In the **USA**: The installation must be in accordance with the National Electrical Code[®], NFPA 70 and ANSI / ISA-RP 12.06.01.
 In **Canada**: The installation must be in accordance with the Canadian Electrical Code[®], Part 1.
- 2) The apparatus must not be connected to any device that uses or generates in excess of 250Vrms or DC.
 $U_{0n} = 250V$.
- 3) In the **USA**: The Apparatus must be connected to a suitable ground electrode per National Electrical Code[®], NFPA 70, Article 504. The resistance of the ground pad must be less than 1 ohm.
 In **Canada**: The Apparatus must be connected to a suitable ground electrode per Canadian Electrical Code[®], Part 1. The resistance of the ground pad must be less than 1 ohm.
 The load cell ground (housing) must be insulated from the surface on which it is mounted or be at the same potential of the NRTL approved apparatus ground as per installation drawings.
- 4) **Connection must be made in accordance with the manufacturer's instructions** of the NRTL approved apparatus.
- 5) The Entity Concept allows interconnection of intrinsically safe apparatus with associated apparatus not specifically examined in combination as a system when the approved values of Vo and Io of the associated apparatus are less than or equal to Vi and Ii of the intrinsically safe apparatus and the approved values of Co and Lo of the associated apparatus are greater than Ci and Li of the intrinsically safe apparatus plus all cable parameters.
- 7) Ambient temperature range:
 -40°C ... +55°C (-40°F ... +131°F) for T5 and -40°C ... +70°C (-40°F ... +158°F) for T4A.
- 8) **WARNING:** SUBSTITUTION OF COMPONENTS MAY IMPAIR INTRINSIC SAFETY
AVERTISSEMENT: LA SUBSTITUTION DE COMPOSANTS PEUT COMPROMETTRE LA SÉCURITÉ INTRINSÈQUE


	Datum Date	Name	Material				Maßstab / Scale
Erstellt Written by	20.08.18	Schallhorn	Minebea <i>intec</i>		Benennung / Title		1:1
Geprüft Reviewed by	20.08.18	Hiller	Load Cells Series PR62..				1
Freigabe Released by	20.08.18	Schallhorn	Ausgabe / Revision 04	Änderung / Alteration PA50180542	Zeichnungs-Nr. / Drawing number 4012 101 5688	Teildok. Nr. / Part doc. no 592	1

12.9 MEU17034



EU-Declaration of Conformity
(in accordance with ISO/IEC 17050-1)

MEU17034 Rev. 2



Minebea
intec
The true measure

1. Product model / product number / solely valid for project number:
 - 1.1 Compression S-Type Load Cell / PR 6241 / —
 - 1.2 Compression S-Type Load Cell + Converter Connexx ® / PR 6241 + PR 6150 | —

2. Name and address of the manufacturer (2.1) and his authorized representative (2.2):
 - 2.1 Minebea Intec GmbH, Meiendorfer Straße 205 A, 22145 Hamburg, Germany
 - 2.2 /

3. This declaration of conformity is issued under the sole responsibility of the manufacturer.

4. Object(s) of the declaration:
 - 4.1 PR 6241; PR 6241+ PR 6150
 - 4.2 PR 6241 (A.1)
 - 4.3 PR 6241 (A.2)
 - 4.4 PR 6241/___E

5. The object(s) of the declaration described above is in conformity with the relevant Union harmonization legislation:

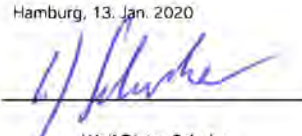
	(4.1)	(4.2)	(4.3)	(4.4)
5.1 2014/30/EU	(6.1)	(6.1)	(6.1)	(6.1)
5.2 2011/65/EU	(6.2)	(6.2)	(6.2)	(6.2)
5.3 2014/34/EU	(6.3)	(6.3)	(6.4)	(6.5)

6. References to the relevant harmonized standards used or references to the other technical specifications in relation to which conformity is declared.
 - 6.1 2014/30/EU EN 61326-1:2013, EN 61000-4-20:2010
 - 6.2 2011/65/EU EN 50581:2012
 - 6.3 2014/34/EU EN 60079-0:2012+A11:2013, EN 60079-15:2010, EN 60079-31:2014
 - 6.4 2014/34/EU EN 60079-0:2012+A11:2013, EN 60079-31:2014
 - 6.5 2014/34/EU EN 60079-0:2012+A11:2013, EN 60079-11:2012

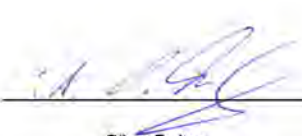
7. The notified body w performed x and issued the certificate y relevant for z:

	w	x	y	z
7.1 /		Manufacturer's certificate	MIN16ATEX001X	(4.2)
7.2 0032		EC-Type Examination Certificate	TÜV 03 ATEX 2301 X	(4.3)
7.3 0158		EC-Type Examination Certificate	BVS 16 ATEX E 005	(4.4)
7.4 0102		Production Quality Assessment Notification	PTB 02 ATEX Q010	(4.3), (4.4)

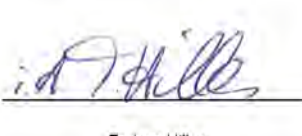
Minebea Intec GmbH
Hamburg, 13. Jan. 2020



Wolf Dieter Schulze
Managing Director



Oliver Freitag
CE Certification



Torben Hiller
Ex Approval Manager

1/6



EU-Declaration of Conformity

(in accordance with ISO/IEC 17050-1)

MEU17034 Rev. 2



A. Additional information on ():

A.1	(7.1)	Marking		II 3G Ex nA IIC T6 Gc II 3D Ex tc IIIC T85°C Dc MIN 16 ATEX 001 X
A.2	(7.2)	Marking		II 1 D Ex ta IIIC T160 °C Da TÜV 03 ATEX 2301 X
A.3	(7.3)	Marking		II 1G Ex ia IIC T6 Ga BVS 16 ATEX E 005
A.4	(6.4)	The above-mentioned product is in line with the requirements of the directive 2014/34/EU. One or more of the European Standards mentioned are already replaced by new editions. The manufacturer declares that the product also complies with these new editions, as the changed requirements of the new Standards do not affect the product.		



EU-Declaration of Conformity
(in accordance with ISO/IEC 17050-1)



MEU17034 Rev. 2

Български (bg)
Декларация за съответствие
1. Модел на продукта / Номер на продукта / важдно само за номери на проекти.
2. Наименование и адрес на производителя (2.1) и на неговия упълномощен представител (2.2).
3. Настоящата декларация за съответствие е издадена на отговорността на производителя.
4. Предмет(и) на декларацията:
5. Предмет(и) (ите) на декларацията, описани(и) по-горе отговаря(т) на съответното законодателство на Съюза за хармонизирано производство на изделия за използване при условията на използване на други технически спецификации, по отношение на които се декларира съответствие.
7. Нотифицираният орган в извършил и в издаде сертификата у, отнасящ се за:
A. Допълнителна информация за ():
A.1 Маркировка
A.2 Маркировка
A.3 Маркировка
A.4 Въвеждането на продукт съответства на изискванията на Директивата 2014/34/ЕС. Една или повече от упоменатите европейски стандарти вече са заменени от нови издания. Производителят декларира, че продуктът съответства и на тези нови издания, тъй като промените изисквания на новите стандарти не касаят продукта.

Съсрми (cs)
Prohlášení o shodě
1. Model výrobku / číslo výrobku / platné pouze pro číslo projektu.
2. Jméno a adresa výrobce (2.1) a jeho zplnomocněného zástupce (2.2).
3. Toto prohlášení o shodě se vydává na výhradní odpovědnost výrobce.
4. Předmět(y) prohlášení:
5. Výše popsaný předmět / Výše popsané předměty prohlášení je/ jsou ve shodě s příslušnými harmonizačními právními předpisy Únie.
6. Odhazy na příslušné harmonizační normy, které byly použity, nebo na jiné technické specifikace, na jejichž základě se shoda prohlašuje.
7. Oznámený subjekt v provedl x a vydal certifikát y relevantní z hlediska z:
A. Další informace o ():
A.1 Označení
A.2 Označení
A.3 Označení
A.4 Výše uvedený výrobek je v souladu s požadavky směrnice Evropského parlamentu a Rady 2014/34/EU. Jedná nebo více uvedených evropských norem již byly nahrazeny novými vydáními. Výrobce prohlašuje, že výrobek je v souladu s těmito novými vydáními, neboť upravené požadavky těchto nových norem nemají na výrobek vliv.

Данск (da)
Overensstemmelseserklæring
1. Produktmodel / produktnummer / gælder kun for projektnummer.
2. Fabrikantens (2.1) og dennes bemyndigede repræsentants (2.2) navn og adresse.
3. Denne overensstemmelseserklæring udstedes på fabrikantens ansvar.
4. Genstand(e) for erklæringen:
5. Genstand(e) for erklæringen, som beskrevet ovenfor, er i overensstemmelse med den relevante EU-harmoniseringslovgivning.
6. Referencer til de relevante anvendte harmoniserede standarder eller til de andre tekniske specifikationer, som der erklæres overensstemmelse med.
7. Det bemyndigede organ v har foretaget x og udstedt attesten y, der gælder for:
A. Supplerende oplysninger om ():
A.1 Mærkning
A.2 Mærkning
A.3 Mærkning
A.4 Overensstemmelse produkt opfylder kravene i direktiv 2014/34/EU. En eller flere af de anførte europæiske standarder er allerede blevet erstattet af nye udgaver. Fabrikanten erklærer, at produktet også er i overensstemmelse med de nye udgaver, idet de ændrede krav i de nye standarder ikke berører produktet.

Deutsch (de)
Konformitätserklärung
1. Produktmodell / Produktnummer / gilt ausschließlich für Projekt-Nr.
2. Name und Anschrift des Herstellers (2.1) und seines Bevollmächtigten (2.2).
3. Die alleinige Verantwortung für die Ausstellung dieser Konformitätserklärung trägt der Hersteller.
4. Gegenstände der Erklärung:
5. Die oben beschriebenen Gegenstände der Erklärung erfüllen die einschlägigen Harmonisierungsrichtsvorschriften der Union (oder der anderen technischen Spezifikationen, die der Konformitätserklärung zugrunde gelegt wurden).
7. Die notifizierte Stelle v hat x und die für z relevante Bescheinigung y ausgestellt.
A. Zusatzangaben zu ():
A.1 Kennzeichnung
A.2 Kennzeichnung
A.3 Kennzeichnung
A.4 Das oben genannte Produkt erfüllt die Anforderungen der Richtlinie 2014/34/EU. Mindestens eine der aufgeführten europäischen Normen ist bereits durch eine neue Ausgabe ersetzt worden. Der Hersteller erklärt, dass das Produkt mit diesen neuen Ausgaben ebenfalls konform ist, da die geänderten Anforderungen der neuen Normen das Produkt nicht betreffen.

Ελληνικό (el)
Δήλωση συμμόρφωσης
1. Μοντέλο προϊόντος / αριθμός προϊόντος / ισχύει μόνο για τον αριθμό του έργου.
2. Όνομα και διεύθυνση του κατασκευαστή (2.1) και του εξουσιοδοτημένου αντιπροσώπου του (2.2).
3. Η παρούσα δήλωση συμμόρφωσης εκδίδεται με αποκλειστική ευθύνη του κατασκευαστή.
4. Στόχος της δήλωσης:
5. Ο στόχος της δήλωσης που περιγράφεται παραπάνω είναι σύμφωνα με τη σχετική ενωσιακή νομοθεσία/εναρμόνιση:
6. Παραπομπές στο σχετικό εναρμονισμένο αρχείο που χρησιμοποιήθηκαν ή παραπομπές στις λοιπές τεχνικές προδιαγραφές σε σχέση με τις οποίες δηλώνεται η συμμόρφωση.
7. Ο κοινοποιημένος οργανισμός v έχει εκδώσει το πιστοποιητικό y όπως απαιτείται για z.
A. Προσθετικές πληροφορίες σχετικά με ():
A.1 Σήμανση
A.2 Σήμανση
A.3 Σήμανση
A.4 Το προαναφερθέν προϊόν συμμορφώνεται με τις απαιτήσεις της οδηγίας 2014/34/ΕΕ. Ένα ή περισσότερα από τα αναφερόμενα ευρωπαϊκά αρχεία έχουν αντικατασταθεί ήδη από νέες εκδόσεις. Ο κατασκευαστής δηλώνει ότι το προϊόν συμμορφώνεται επίσης με τις εν λόγω νέες εκδόσεις, καθώς οι τροποποιημένες απαιτήσεις των νέων προτύπων δεν επηρεάζουν το προϊόν.

español (es)
Declaración de conformidad
1. Modelo de producto/número de producto / únicamente válido para el número de proyecto.
2. Nombre y dirección del fabricante (2.1) y de su representante autorizado (2.2).
3. La presente declaración de conformidad se expide bajo la exclusiva responsabilidad del fabricante.
4. Objeto(s) de la declaración:
5. El/Es objeto(s) de la declaración descrito(s) anteriormente son conformes con la legislación de armonización pertinente de la Unión Europea.
6. Referencias a las normas armonizadas pertinentes utilizadas o referencias a las otras especificaciones técnicas respecto a las cuales se declara la conformidad.
7. El organismo notificado W ha efectuado X y expedido el certificado Y relevante para Z.
A. Información adicional en ():
A.1 Marcado
A.2 Marcado
A.3 Marcado
A.4 El producto mencionado anteriormente cumple con los requisitos de la directiva 2014/34/UE. Una o más de las normas europeas mencionadas ya se han substituido por nuevas ediciones. El fabricante declara que el producto también cumple con estas nuevas ediciones, ya que los requisitos modificados de las nuevas normas no afectan al producto.



EU-Declaration of Conformity
(in accordance with ISO/IEC 17050-1)



MEU17034 Rev. 2

esti keel (et)

Vastavusdeklaratsioon
1. Tootemudel / tootenumber / tehnilis vaatl jrgmise projekti puhul
2. Tootja nimi ja aadress (2.1) ning tema volitatud esindaja (2.2)
3. Kssolev vastavusdeklaratsioon on vclja antud tootja ainvastutusel
4. Deklareeritud toode:
5. Clalkalgeidatud deklareeritud toode on koostkolas asjaomaste lindi diktustamsalvldega
6. Viited ksastud harmoneeritud standarditele vcl viited mudelite tehnilistele spetsifikatsioonidele, millele vastavust deklareeritakse:
7. Teavitatud asutus v tootaja ja ardis vclja toendi z, mis on asjakohane y-le:
A. Lisateave jrgmise kohta ()
A.1 Mrgistus
A.2 Mrgistus
A.3 Mrgistus
A.4 Clalmanitud toode on koostkolas diktstvi 2014/34/EL ncueteqa. Uks voi mitu ncueteqa Euroopa standardit on asendatud juba oate vcljaannetega. Tootja kinnitab, et toode on koostkolas ka nende uute vcljaannetega, kuna ncuete standardite muudetud ncuete ei mcljuta toodeid.

frnncsa (fr)

Dclaration de conformit
1. Modle / numero de produit / valable uniquement pour le numero de projet
2. Nom et adresse du fabricant (2.1) et de son mandataire (2.2)
3. La prsente dclaration de conformit est tablie sous la seule responsabilit du fabricant
4. Objet(s) de la dclaration
5. Le ou les objets de la dclaration dcrite ci-dessus est/sont conforme(s) la lgislation d'harmonisation de l'Union applicable
6. Rfrences des normes harmonises pertinentes appliques ou des autres spcifications techniques par rapport auxquelles la conformit est declaree
7. L'organisme notifi v a effectu v et a tabli l'attestation y applicable a z:
A. Informations complmentaires relatives la ()
A.1 Marquage
A.2 Marquage
A.3 Marquage
A.4 Le produit mentionn est conforme aux exigences de la directive 2014/34/UE. Une ou plusieurs des normes europennes mentionnes ont dj v remplacs par de nouvelles ditions. Le fabricant declare que le produit est egalement conforme a ces nouvelles ditions, dans la mesure ou les exigences modifies des nouvelles normes n'affectent pas le produit.

hrvatski (hr)

Izjava o skladnosti
1. Model proizvoda / broj proizvođa / vrijedi samo za broj projekta
2. Naziv i adresa proizvođača (2.1) i njegovog ovlaštenog zastupnika (2.2)
3. Za izdavanje ove izjave o skladnosti odgovoran je isključivo proizvođač
4. Predmet(i) izjave:
5. Predmet(i) navedene izjave je/su u skladu s mjerodavnim zakonodavstvom Unije o uskladjivanju
6. Pozivaju se relevantne primjenjene skladnostne norme ili pozivaju na ostale tehničke specifikacije u vezi s kojima se izjavljuje skladnost
7. Prijavljeno tijelo v provelo je x izdalo certifikat y koji je relevantan za z:
A. Dodatne informacije o proizvodu ()
A.1 Označavanje
A.2 Označavanje
A.3 Označavanje
A.4 Prethodno navedeni proizvod u skladu je sa zahtjevima Direktive 2014/34/EU. Jedna ili više navedenih europskih normi već je zamijenjeno novim izdanjima. Proizvođač izjavljuje da je proizvod u skladu s tim novim izdanjima, jer se izmijenjeni zahtjevi ili novi normi ne odnose na proizvod.

magyar (hu)

Megfelelőségi nyilatkozat
1. Termékmódel / termékszám / kivárolag az alábbi projektszámhoz érvényes:
2. A gyártó (2.1) vagy adott esetben meghatalmazott képviselőjének (2.2) neve és címe
3. Ezt a megfeleléségi nyilatkozatot a gyártó kizárólagos felelősége mellett adja ki
4. A nyilatkozat tárgya ()
5. A fent ismertetett nyilatkozat tárgya megfelel a vonatkozó unios harmonizációs jogszabályoknak
6. Az alkalmazott harmonizált szabványokra való hivatkozás vagy az azokra az egyéb műszaki leírásokra való hivatkozás, amelyekkel kapcsolatban megfeleléségi nyilatkozatot tettek
7. A(z) v bejelentett szervezet elvégezte a(z) x eljárást, és kiállította a(z) z kapcsolódó y fennsítványt:
A. További információk ()
A.1 Jelölés
A.2 Jelölés
A.3 Jelölés
A.4 A fentebb megnevezett termék megfelel a 2014/34/EU irányelvben foglalt követelményeknek. Egy vagy több említett Európai szabvány a kiállítás óta frissült. A gyártó kijelenti, hogy a termék megfelel a szabványok legújabb kiadásában foglalt követelményeknek, mivel a szabvány módosításai nem érintik az adott terméket.

italiano (it)

Dichiarazione di conformità
1. Modello di prodotto / numero di prodotto / valido unicamente per numero di progetto
2. Nome e indirizzo del fabbricante (2.1) e del relativo rappresentante autorizzato (2.2)
3. La presente dichiarazione di conformità è rilasciata sotto la responsabilità esclusiva del fabbricante
4. Oggetto/i della dichiarazione
5. L'oggetto o gli oggetti della dichiarazione di cui sopra sono conformi alla pertinente normativa di armonizzazione dell'Unione
6. Riferimento alle pertinenti norme armonizzate utilizzate o riferimenti alle altre specifiche tecniche in relazione alle quali è dichiarata la conformità
7. L'organismo notificato v ha effettuato v e rilasciato il certificato y pertinente a z:
A. Informazioni aggiuntive su ()
A.1 Marcatura
A.2 Marcatura
A.3 Marcatura
A.4 Il prodotto menzionato in precedenza è conforme alle prescrizioni della direttiva 2014/34/UE. Una o più norme UE menzionate sono già state sostituite da nuove versioni. Il fabbricante dichiara che il prodotto è conforme anche alle nuove versioni in quanto le prescrizioni modificate delle nuove norme non interessano il prodotto.

Lavng kalba (lt)

Atitikties deklamacija
1. Gaminto modelis / gaminto numeris / galioja tik projekto numeriam
2. Gamintojo (2.1) ir jo įgaliojotojo atstovo (2.2) pavadinimas ir adresas
3. Ši atitikties deklamacija išduota tik gamintojo atsakomybe
4. Deklaracijos objektas (objektai)
5. Pirmiau aprašytas deklamacijos objektas (objektai) atitinka susijusių derinamumo su Sąjungos veiks duos
6. Susijusių taisyklų darnųjų standartų nuorodos arba kitų techninių specifikacijų, pagal kurias buvo deklaruota atitikties, nuorodos
7. Notifikotoji įstauga v atliko x ir išdavė sertifikata y del z:
A. Papildoma informacija ()
A.1 Ženklinimas
A.2 Ženklinimas
A.3 Ženklinimas
A.4 Pirmiau nurodytas gaminytis atitinka Direktyvos 2014/34/ES reikalavimus. Vienas ar keli nurodyti Europos standartai jau pakeisti nauja redakcija. Gamintojas patvirtina, kad gaminytis taip pat atitinka naująją redakciją, nes pakeisti naujuji standartai reikalavimai gaminiui poveikioti neturi.



EU-Declaration of Conformity

(in accordance with ISO/IEC 17050-1)

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latviešu valoda (lv)

Absolūtās deklarācija
1. Produkta modeļa / produkta numurs / derīgā tīkla projekta Nr.
2. Ražotāja (2.1.) un tā pilnvarotā pārstāvja (2.2.) nosaukums un adrese
3. Šī absolūtās deklarācija ir izdota vienīgi uz ražotāja atbildību.
4. Deklarācijas priekšmets vai priekšmets:
5. Iepriekš aprakstītais deklarācijas priekšmets vai priekšmets atbilst attiecīgajam Savienības saskaņotības tiesību aktam.
6. Atsauces uz attiecīgajiem izstrādājumiem saskaņotajiem standartiem vai uz citām tehniskajām specifikācijām, attiecībā uz ko tiek deklarēta atbilstība:
7. Paziņota struktūra w ir veikusi x un izstrādājis sertifikātu y, kas atbilst uz z.
A. Papildu informācija par ()
A.1 Marķējums
A.2 Marķējums
A.3 Marķējums
A.4 Iepriekš minētais produkts atbilst Direktīvas 2014/34/ES prasībām. Viens vai vairāki no minētajiem Eiropas standartiem jān ir aizstāti ar jaunām versijām. Ražotājs apliecina, ka produkts atbilst arī šīm jaunajām versijām, jo pašos standartu mainītās prasības neietekmē produktu.

poľska (pl)

Deklaracja zgodności
1. Model produktu / numer projektu / ważny wyłącznie dla projektu o numerze.
2. Nazwa i adres producenta (2.1) oraz jego upoważnionego przedstawiciela (2.2).
3. Niniejsza deklaracja zgodności wydana została na wyłączną odpowiedzialność producenta.
4. Przedmiot(-y) deklaracji:
5. Wymieniony powyżej przedmiot (lub przedmioty) niniejszej deklaracji jest zgodny z odnosnymi wymaganiami unijnego prawodawstwa harmonizacyjnego.
6. Odwołania do odnosnych norm zharmonizowanych, które zastosowano, lub do innych specyfikacji technicznych, w stosunku do których deklarowana jest zgodność.
7. Jednostka odpowiedzialna za przeprowadzenie i wydanie certyfikatu y i odpowiedni dla z:
A. Informacje dodatkowe o ()
A.1 Oznakowanie
A.2 Oznakowanie
A.3 Oznakowanie
A.4 Wyżej wymieniony produkt jest zgodny z wymaganiami Dyrektywy 2014/34/UE. Co najmniej jedna wymieniona norma europejska została już zastąpiona nowym wydanem. Producent oświadcza, że produkt spełnia wymagania także takich nowych wydań norm, gdyż zmienione wymagania zawarte w nowych normach nie mają wpływu na produkt.

mulki (mt)

Dikjarazzjoni ta' konformità
1. Model tal-prodott / numru tal-prodott / validu biss għan-nimni tal-projeġt.
2. L-isem u l-indirizz tal-manifattur (2.1) u (ar-rappreżentanti awtorizzati (iegħu (2.2)).
3. Din id-dikjarazzjoni ta' konformità (infereg tal-ir-responsabbiltà unika tal-manifattur.
4. L-għan(jiet) tad-dikjarazzjoni:
5. L-għan(jiet) tad-dikjarazzjoni deskritt(i) hawn fuq huwa(huma) konformi mal-legislazzjoni ta' armonizzazzjoni rilevanti tal-Unjoni.
6. Ir-referenzi għall-istandarde armonizzati rilevanti li nuzaw, jew ir-referenzi għall-ispeċifikazzjonijiet tekniċi l-oħra li skomhom qed iġi dikjarata l-konformità.
7. Il-korp notifikat w waqqaf x u harrg id-ċertifikat y rilevanti għal z.
A. Informazzjoni addizzjonali fuq ()
A.1 Immarkar
A.2 Immarkar
A.3 Immarkar
A.4 Il-prodott mienenni hawn fuq huwa l-konformità mar-rekwiżiti tad-Direttiva 2014/34/UE. Wieħed jew aktar mill-istandarde Ewropej imsemmija diġa jow sovvietti b'valurazzjonijiet godda biss. Il-manifattur jiddikjara li l-prodott huwa konforma wkoll mal- dawn l-edizzjonijiet godda, għax ir-rekwiżiti tal-istandards il-godda ma jaffettwaw il-prodott.

portuguez (pt)

Declaração de conformidade
1. Modelo do produto / número do produto / somente válido para o número do projeto.
2. Nome e endereço do fabricante (2.1) e do seu mandatário (2.2).
3. A presente declaração de conformidade é emitida sob a exclusiva responsabilidade do fabricante.
4. Objeto(s) da declaração:
5. O(s) objeto(s) da declaração acima descrito(s) está(ão) em conformidade com a legislação aplicável de harmonização da União.
6. Referências às normas harmonizadas aplicáveis utilizadas ou às outras especificações técnicas em relação às quais é declarada a conformidade.
7. O organismo notificado w realizou x e emitiu o certificado y relevante para z.
A. Informações complementares relativa a ()
A.1 Marcação
A.2 Marcação
A.3 Marcação
A.4 O produto acima mencionado está em conformidade com os requisitos da diretiva 2014/34/UE. Uma ou mais das Normas Europeias mencionadas acima já foram substituídas por novas edições. O fabricante declara que o produto também está em conformidade com essas novas edições, uma vez que os requisitos aplicados dessas novas Normas não afetam o produto.

ņiederlands (nl)

Conformiteitsverklaring
1. Productmodel / productnummer / instelnummer geldig voor projectnummer.
2. Naam en adres van de fabrikant (2.1) en zijn gemachtigde (2.2).
3. Deze conformiteitsverklaring wordt verstrekt onder volledige verantwoordelijkheid van de fabrikant.
4. Voorwerpen van de verklaring:
5. Het (de) hierboven beschreven voorwerp(en) is (zijn) in overeenstemming met de desbetreffende harmonisatievergeving van de Unie.
6. Vermelding van de toepasselijke relevante geharmoniseerde normen of van de overige technische specificaties waarop de conformiteitsverklaring betrekking heeft.
7. De aangemelde instantie w heeft een x uitgevoerd en het certificaat y verstrekt dat relevant is voor z.
A. Aanvullende informatie over ()
A.1 Markering
A.2 Markering
A.3 Markering
A.4 Het bovengenoemde product voldoet aan de eisen van Richtlijn 2014/34/UE. Een of meer van de genoemde Europese normen zijn inmiddels vervangen door nieuwe versies. De fabrikant verklaart dat het product ook aan deze nieuwe versies voldoet, aangezien de gewijzigde eisen van de nieuwe normen geen gevolgen hebben voor het product.

română (ro)

Declarație de conformitate
1. Modelul de produs / Număr produs / valabil numai pentru numărul proiectului.
2. Denumirea și adresa producătorului (2.1) și a reprezentantului său autorizat (2.2).
3. Prezenta declarație de conformitate este emisă pe răspunderea exclusivă a producătorului.
4. Obiectul (obiectele) declarației:
5. Obiectul (obiectele) declarației descris(e) sus sunt în conformitate cu legislația relevantă de armonizare a Uniunii.
6. Trimiterea la standardele armonizate relevante folosite sau trimiterea la celelalte specificații tehnice în legătură cu care se declară conformitatea.
7. Organismul notificat w a efectuat x și a emis certificatul y relevant pentru z.
A. Informații suplimentare despre ()
A.1 Marcare
A.2 Marcare
A.3 Marcare
A.4 Produsul menționat anterior respectă cerințele directivei 2014/34/UE. Una sau mai multe din standardele europene menționate sunt deja înlocuite de noi ediții. Producătorul declară faptul că produsul respectă de asemenea aceste noi ediții, asigurând că cerințele modificate ale noilor standarde nu afectează produsul.



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slovenščina (sl)

Vyhlasenie o zhode
1. Model výrobku / číslo výrobku / platné len pre číslo projektu.
2. Meno názov a adresa výrobcu (2.1) a jeho splnomocneného zástupcu (2.2).
3. Toto vyhlásenie o zhode sa vydáva na vlastnú zodpovednosť výrobcu.
4. Predmet(-y) vyhlásenia.
5. Uvedený predmet či uvedené predmety vyhlásenia sú v zhode s priloženými harmonizačnými právnymi predpismi Únie.
6. Odkazy na príslušné použité harmonizačné normy alebo odkazy na iné technické špecifikácie, v súvislosti s ktorými sa zhoda vyhlasuje.
7. Notifikovaný orgán v zmysle článku 18 ods. 1 písm. a) a relevantný príkaz ().
A. Doplňujúce informácie o ():
A.1 Označenie
A.2 Označenie
A.3 Označenie
A.4 Vyššie uvedený výrobok je v súlade s požiadavkami smernice 2014/34/EU. Jedna alebo viaceré z uvedených európskych noriem sú už nahradené novými vyhláseniami. Výrobca vyhlasuje, že výrobok je v zhode aj s týmito novými vyhláseniami, pretože zmena požiadavky nových noriem nemá na výrobok vplyv.

slovenščina (sl)

Izjava o skladnosti
1. Model proizvoda / serijska številka proizvoda / veljavno samo za številko projekta.
2. Ime in naslov proizvajalca (2.1) ter njegovega pooblaščenega zastopnika (2.2).
3. Za izdajo te izjave o skladnosti je odgovoren izključno proizvajalec.
4. Predmet(i) izjave.
5. Predmet(i) navedene izjave je (so) v skladu z ustreznimi zakonodajno Unije o harmonizaciji.
6. Sklicevanja na uporabljene ustrezne harmonizirane standarde ali sklicevanja na druge tehnične specifikacije v zvezi s skladnostjo, ki je navedena v izjavi.
7. Priglaseni organ w je izvedel x in izdal certifikat y, pomemben za z:
A. Dodatne informacije o ():
A.1 Označba
A.2 Označba
A.3 Označba
A.4 Zgoraj navedeni proizvod je v skladu z zahtevami direktive 2014/34/EU. Enega ali več omenjenih evropskih standardov so že nadomestile nove izdaje. Proizvajalec izjavlja, da je proizvod skladen s temi novimi izdajami, saj spremenjene zahteve novih standardov ne vplivajo na proizvod.

finon (fi)

Vaatimusermukaisuusvakuutus
1. Tuotemalli / tuotenimero / koskee vain projektinumeroa.
2. Valmistajan (2.1) ja valtuutetun edustajan (2.2) nimi ja osoite.
3. Tämä vaatimusermukaisuusvakuutus on annettu valmistajan yksinomaanella vastuulla.
4. Vakuutuksen kohde (kohteet).
5. Edellä kuvattu (kuvattu) vakuutuksen kohde (kohteet) on (ovat) asiaa koskevan unionin yhdenmukaistamislausunkäytännön vaatimusten mukainen (mukaista).
6. Viittaus mihin asiaa koskeviin yhdenmukaistettuihin standardeihin, joita on käytetty, tai viittaus muihin teknisiin eritelmiin, joiden perusteella vaatimusermukaisuusvakuutus on annettu.
7. Ilmoitettu laitos on suorittanut x ja antanut todistuksen y liittyen z:
A. Lisätietoja ():
A.1 Merkintä
A.2 Merkintä
A.3 Merkintä
A.4 Yllä mainittu tuote vastaa direktiivin 2014/34/EU vaatimuksia. Yksi tai useampi mainittuista eurooppalaisista standardeista on jo korvattu uusilla painoksilla. Valmistaja vakuuttaa että tuote vastaa myös näitä uusia painoksia, koska uusien standardien muutokset eivät vaikuta tuotteeseen.

svenska (sv)

Föreskrän om överensstämmelse
1. Produktmodell / produktnummer / gäller endast för projektnummer.
2. Tillverkarens namn och adress (2.1) och dess auktoriserade representant (2.2).
3. Denna föreskrän om överensstämmelse utfärdas på tillverkarens eget ansvar.
4. Föremål för föreskrän.
5. Föremålet/föremålen för föreskrän övsn överensstämmer med den relevanta harmoniserade unionslagstiftningen.
6. Hänvisningar till de relevanta harmoniserade standarder som avviks eller hänvisningar till de andra tekniska specifikationer enligt vilka överensstämmelsen föreskräs.
7. Det nämnda organet w har utfört x och utfärdat intyg y relevant för z:
A. Tilläggande information om ():
A.1 Märkning
A.2 Märkning
A.3 Märkning
A.4 Övsn nämnda produkt är i linje med kraven i direktiv 2014/34/EU. En eller flera av de nämnda europeiska standarderna har redan ersatts av nya upplagor. Tillverkaren föreskrär att produkten även överensstämmer med dessa nya upplagor, då de ändrade kraven i de nya standarderna inte påverkar produkten.

12.10 RU Д-DE.A301.B.05345

	ЕВРАЗИЙСКИЙ ЭКОНОМИЧЕСКИЙ СОЮЗ ДЕКЛАРАЦИЯ О СООТВЕТСТВИИ
<p>Заявитель Общество с ограниченной ответственностью «ДС Компания». Основной государственный регистрационный номер: 1107746937374. Место нахождения: 105037, Российская Федерация, город Москва, улица 3-я Парковая, дом 9, квартира 18 Телефон: 89660273663, адрес электронной почты: dc.company2000@gmail.com в лице Генерального директора Ежова Олега Олеговича</p>	
<p>заявляет, что Типы датчиков типов: PR6201, PR6202, PR6211, PR6212, PR6251, PR6221, PR6261, PR6224, PR6204, PR6246, PR6241, PR6207 Продукция изготовлена в соответствии с Директивой 2014/30/ЕС «Электромагнитная совместимость» изготовитель Minebea Intec GmbH. Место нахождения: ГЕРМАНИЯ, Meiendorfer Strasse 205, 22145 Hamburg</p>	
<p>код ТН ВЭД ЕАЭС 9031 80 380 0</p>	
<p>Серийный выпуск соответствует требованиям Технического регламента Таможенного союза ТР ТС 020/2011 "Электромагнитная совместимость технических средств"</p>	
<p>Декларация о соответствии принята на основании протокола испытаний № 314-04/12-СТ от 13.04.2017 года, выданного испытательной лабораторией «Серт-Тест» Общества с ограниченной ответственностью «Серт и Ко», регистрационный № РОСС RU.04ИДЮ0.002: руководства по эксплуатации; паспорта</p>	
<p>Схема декларирования: Id</p>	
<p>Дополнительная информация Условия хранения продукции в соответствии с требованиями ГОСТ 15150-69. Срок хранения (службы, годности) указан в прилагаемой к продукции эксплуатационной документации. Стандарты, обеспечивающие соблюдение требований Технического регламента Таможенного союза ТР ТС 020/2011 "Электромагнитная совместимость технических средств": ГОСТ 30804.3.2-2013 "Совместимость технических средств электромагнитная. Эмиссия гармонических составляющих тока техническими средствами с потребляемым током не более 16 А (в одной фазе). Нормы и методы испытаний", ГОСТ 30804.3.3-2013 "Совместимость технических средств электромагнитная. Ограничение изменений напряжения, колебаний напряжения и фликера в низковольтных системах электроснабжения общего назначения. Технические средства с потребляемым током не более 16 А (в одной фазе), подключаемые к электрической сети при несоблюдении определенных условий подключения. Нормы и методы испытаний"</p>	
<p>Декларация о соответствии действительна с даты регистрации по 12.04.2022 включительно.</p>	
	<p>Ежов Олег Олегович <small>(подпись и печать уполномоченного представителя лица, зарегистрированного в качестве индивидуального предпринимателя)</small></p>
<p>Сведения о регистрации декларации о соответствии: Регистрационный номер декларации о соответствии: ЕАЭС № RU Д-DE.A301.B.05345 Дата регистрации декларации о соответствии 13.04.2017</p>	

12.11 DE-17-PC-PTB005

 <p>Physikalisch-Technische Bundesanstalt Nationales Metrologieinstitut</p>		<p>KBS Konformitätsbewertungsstelle</p>	
			
<h2>Baueinheiten-Zertifikat</h2> <p><i>Parts Certificate</i></p>			
Ausgestellt für: <i>Issued to:</i>	Minebea Intec GmbH Meiendorfer Str. 205 A 22145 Hamburg		
gemäß: <i>In accordance with:</i>	WELMEC 8.8 (2011-05) WELMEC Guide 8.8 (2011-05)		
Baueinheiten: <i>Type of parts:</i>	Wägezelle Load cell		
Typbezeichnung: <i>Type designation:</i>	PR 6241		
Nr. der Bescheinigung: <i>Certificate No.:</i>	DE-17-PC-PTB005		
Anzahl der Seiten: <i>Number of pages:</i>	8		
Geschäftszeichen: <i>Reference No.:</i>	PTB-1.12-4084763		
Zertifizierung: <i>Certification:</i>	Braunschweig, 13.10.2017	Bewertung: <i>Evaluation:</i>	
Im Auftrag <i>On behalf of PTB</i>	Siegel <i>Seal</i>	Im Auftrag <i>On behalf of PTB</i>	
 Dr. Dorothea Knopf		 Timo Schwabe	
<p>Zertifikate ohne Unterschrift und Siegel haben keine Gültigkeit. Dieses Zertifikat darf nur unverändert weiterverbreitet werden. Auszüge bedürfen der Genehmigung der Physikalisch-Technischen Bundesanstalt. <i>Certificates without signature and seal are not valid. This certificate may not be reproduced other than in full. Extracts may be taken only with the permission of the Physikalisch-Technische Bundesanstalt.</i></p>			
R3-0035965			



Physikalisch-Technische Bundesanstalt
Nationales Metrologieinstitut

KBS

Konformitätsbewertungsstelle

Seite 2 des Baueinheiten-Zertifikats DE-17-PC-PTB005
Page 2 of the Parts Certificate DE-17-PC-PTB005

vom 13.10.2017
dated 13.10.2017

Zertifikatsgeschichte / Certificate history

Zertifikats-Ausgabe Certificate release	Datum Date	Wesentliche Änderungen Essential changes
DE-17-PC-PTB005	2017-10-13	Erstbescheinigung / primary certificate

Vorbemerkung / Preliminary remark

Dieses Zertifikat ist in Deutsch geschrieben. Im Fall von Unstimmigkeiten zwischen der deutschsprachigen Version und der englischen Übersetzung gilt die deutsche Version.

This certificate is written in German. In case of any conflict between the German language version and the English translation of it, the German version shall prevail.

1. Technische Daten / Technical Data

Die metrologischen Kenndaten der Wägezellen Typ PR 6241 sind in Tabelle 1 angegeben. Weitere technische Daten sind dem Datenblatt des Herstellers, Abschnitt 6 dieser Anlage, zu entnehmen.

The metrological characteristics of the load cells type PR 6241 are listed in Table 1. Further technical data are listed in the data sheet of the manufacturer in section 6 of this annex.

Tabelle 1: Wesentliche Kenndaten

/ Table 1: Essential data

Genauigkeitsklasse Accuracy class		D1	C1	C2	C3	C6 ^{a)}
Max. zul. Anzahl d. Teilungswerte Maximum number of verification intervals	n _{LC}	1	1000	2000	3000	6000
Kennwert Rated output	mV/V	2 ^{b)}				
Nennlast Nominal capacity	E _{max}	kg	50 / 100 / 200 / 300 / 500 / 1000 / 2000 / 3000 / 5000 ^{c)}			
Mindestteilungswert d. Wägezelle Minimum load cell verification interval	V _{min} = (E _{max} / Y)	1	E _{max} / 5000	E _{max} / 10000	E _{max} / 14000	E _{max} / 20000
Vorlastsignallrückkehr Minimum dead load output return	DR = (½ · E _{max} / Z)	1	½ · E _{max} / 1000	½ · E _{max} / 2000	½ · E _{max} / 3000	½ · E _{max} / 8000
Vorlast Dead load	% E _{max} / kg	1	0			
Grenzlast Safe overload	% E _{max} / kg	1	150			
Eingangswiderstand Input impedance	Ω	650 ± 6				

- a) für E_{max} = 200 kg bis E_{max} = 3000 kg: Genauigkeitsklasse C6;
for E_{max} = 200 kg up to E_{max} = 3000 kg: accuracy class C6;
- b) für E_{max} = 50 kg: 1 mV/V; Y = 5000;
for E_{max} = 50 kg: 1 mV/V; Y = 5000;
- c) für E_{max} = 5000 kg: nur Genauigkeitsklasse D1, C1, C2, C3;
for E_{max} = 5000 kg: only accuracy class D1, C1, C2, C3;



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2. Prüfungen / Tests

Die Richtigkeitsprüfungen, die Untersuchungen der Stabilität des Nullsignals, der Reproduzierbarkeit und des Kriechverhaltens im Temperaturbereich von -10°C bis +55°C sowie die barometrischen Prüfungen und die Prüfung der Messbeständigkeit bei zyklischer Feuchte-Wärme wurden nach OIML R60 (2000) mit dem Fehleranteil $p_{LC} = 0,7$ entsprechend Tabelle 2 ausgeführt.

The determination of the load cell error, the stability of the dead load output, repeatability and creep in the temperature range of -10°C to +55°C as well as the tests of barometric pressure effects and the determination of the effects of cyclic damp heat have been performed according to OIML R60 (2000) with fraction $p_{LC} = 0.7$ as shown in Table 2.

Tabelle 2: Ausgeführte Prüfungen / Table 2: Tests performed

Prüfung / Test	R60 (2000)	Nennlasten der geprüften Muster nominal loads of tested samples	Ergebnis result
Temperaturprüfung und Wiederholbarkeit bei Temperature test and repeatability at 20°C / 55°C / 40°C / -10°C / 20°C	5.1.1; 5.4 A.4.1	100 / 200 / 1000 kg	+
Temperatureinfluss auf Vorlastsignal bei Temp. effect on min. dead load output at 20°C / 55°C / 40°C / -10°C / 20°C	5.5.1.3 A.4.1.16	100 / 200 / 1000 kg	+
Kriechprüfung bei Creep test at 20°C / 55°C / 40°C / -10°C / 20°C	5.3.1 A.4.2	100 / 200 / 1000 kg	+
Mindestvorlastsignalrückkehr bei Minimum dead load output return at 20°C / 55°C / 40°C / -10°C / 20°C	5.3.2 A.4.3	100 / 200 / 1000 kg	+
Auswirkung des Luftdrucks bei Umgebungstemperatur Barometric pressure effects at room temperature	5.5.2 A.4.4	200 kg	+
Feuchteprüfung, zyklisch, Kennzeichnung CH oder (ohne) Damp heat test, cyclic, marked CH or (not marked)	5.5.3.1 A.4.5	200 kg	+

Die folgenden Messergebnisse sind in der PTB hinterlegt: / Following test results are kept at PTB:

- Test Report No. PTB 1.12-4084763-4.1, 06. September 2017:
E_{max}=200 kg; SN: 49117; C6; Y=20000; Z=8000; T_{max}= 40 °C
- Test Report No. PTB 1.12-4084763-4.2, 06. September 2017:
E_{max}=200 kg; SN: 49117; C6; Y=20000; Z=8000; T_{max}= 55 °C
- Test Report No. PTB 1.12-4084763-5.1, 06. September 2017:
E_{max}=1000 kg; SN: 61991; C6; Y=20000; Z=8000; T_{max}= 40 °C
- Test Report No. PTB 1.12-4084763-5.2, 06. September 2017:
E_{max}=1000 kg; SN: 61991; C6; Y=20000; Z=8000; T_{max}= 55 °C



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- Test Report No. PTB 1.12-4084763-6.1, 06. September 2017:
E_{max}=100 kg; SN: 598248; C2; Y=10000; Z=2000; T_{max}= 40 °C
- Test Report No. PTB 1.12-4084763-6.2, 06. September 2017:
E_{max}=100 kg; SN: 598248; C2; Y=10000; Z=2000; T_{max}= 55 °C

3. Beschreibung der Wägezelle / Description of the load cell

Die Wägezellen der Baureihe PR 6241 sind S-förmige Drucklast-Wägezellen

Sie sind aus rostfreiem Edelstahl hergestellt, die DMS-Applikation ist hermetisch gekapselt. Die wesentlichen Betriebsdaten sind dem Datenblatt in Abschnitt 6 dieser Anlage zu entnehmen.

The load cells of the series PR 6241 are s-shaped compression load cells. They are made of stainless steel, the strain gauge application is hermetically sealed. Further essential characteristics are given in the data sheet, see section 6 of this annex.

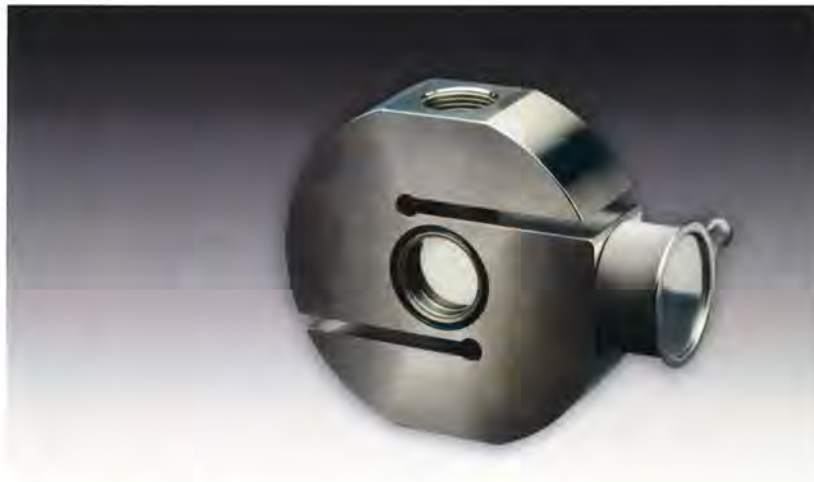


Bild 1: Wägezelle Typ PR 6241/33 (Nennlast 3000 kg)

Figure 1: Load cell type PR 6241/33 (nominal load 3000 kg)

Das Typenschild enthält folgende Kenndaten:

The name plate contains following characteristics:

- Hersteller / name of manufacturer
- Typenbezeichnung / load cell model
- Seriennummer / Serial number
- Nennlast E_{max} / Maximum capacity
- Genauigkeitsklasse / Accuracy class designation
- Kabellänge / Cable length



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4. Dokumentation / Documentation

Die zu diesem Zertifikat gehörenden technischen Unterlagen des Zertifikatsinhabers sind im Zertifizierungs-Dokumentensatz der benannten Stelle hinterlegt. Ein von der benannten Stelle gestempeltes Inhaltsverzeichnis dieses Zertifizierungs-Dokumentensatzes wurde dem Zertifikatsinhaber zugeschickt

The documents appendant to this certificate are deposited at the notified body in the certification documentation. The index of the certification documentation has been stamped by the notified body and sent to the owner of the certificate.

5. Weitere Informationen / Further information

Fertigungsverfahren, Werkstoffe und Abdichtungen müssen den vorgestellten Mustern und der in der PTB hinterlegten Dokumentation entsprechen; Änderungen sind nur mit Zustimmung der PTB erlaubt.

Die im Datenblatt hinsichtlich Linearität, Umkehrspanne und Temperaturgang angegebenen Fehlergrenzen begrenzen maximal mögliche Einzelfehler eines Musters; der für jedes Muster zulässige Gesamtfehler aus diesen Größen ist durch die Fehlergrenze nach OIML R60 Nr. 5.1 (Hüllkurve) vorgegeben.

Die technischen Daten sowie die Abmessungen der Wägezellen sind im Abschnitt 6 in dieser Anlage enthalten und müssen beachtet werden. Die Wägezellen können nach DIN EN 45501 Nr. 4.12 auch in Waagen der Klasse (III) eingesetzt werden.

The manufacturing process, material and sealing of the produced load cells have to be in accordance with the tested patterns; changes are only allowed with the permission of the PTB.

The typical errors related to linearity, hysteresis and temperature coefficient as indicated in the data sheet point out possible single errors of a pattern; however, the overall error of each pattern is determined by the maximum permissible error according to OIML R60 No 5.1.

The technical data, the dimensions of the load cell are given in section 6 of this annex, have to be complied with. The load cells also can be used in weighing instruments of class (III) in accordance with DIN EN 45501 No. 4.12.

6. Datenblatt und Abmessungen / Data sheet and dimensions

Kenndaten der Wägezellen-Familie / Specifications of the Load Cell Family

Genauigkeitsklasse nach OIML R60 <i>Accuracy class acc. to OIML R60</i>		D1	C1	C2	C3	C6 ⁴⁾
	% E _{max}	0,04	0,03	0,02	0,015	0,008
Nennwert <i>Rated output</i>	C _n	mVV	2 ⁵⁾			
Relative Kennwertabweichung <i>Tolerance on rated output</i>	d _c	% C _n	< 0,25	< 0,20	< 0,07	
Nennlast <i>Nominal capacity</i>	E _{max}	kg	50 / 100 / 200 / 300 / 500 / 1000 / 2000 / 3000 / 5000 ⁶⁾			
Anzahl der Teilungswerte <i>Max. number of load cell verification intervals</i>	n _{LC}	1	1000	1000	2000	3000 / 6000
Mindestteilungswert d. Wägezelle <i>Min. load cell verification interval</i>	v _{min} = (E _{max} / Y)	kg	E _{max} / 5000	E _{max} / 10000		E _{max} / 14000 / E _{max} / 20000
Mindestvorlastsignalrückkehr <i>Minimum dead load output return (MDLOR)</i>	MDLOR	kg	½ E _{max} / 1000		½ E _{max} / 2000	½ E _{max} / 3000 / ½ E _{max} / 8000
Belastungskriechen (30 Min) <i>Creep (30 min)</i>	d _c	% C _n	< 0,03		< 0,02	< 0,015 / < 0,008



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Linearitätsabweichung <i>Non-Linearity</i>	d_{lin}	% C_n	< 0,03	< 0,015	< 0,01	
Reproduzierbarkeit <i>Repeatability</i>	ϵ_{Rr}	% C_n	< 0,01		< 0,005	
Relative Umkehrspanne <i>Hysteresis error</i>	d_{hy}	% C_n	< 0,04	< 0,03	< 0,02	< 0,015 < 0,008
Temperaturkoeffizient d. Kennwertes <i>Temperature coefficient on C</i>	TK_C	% C_n / 10 K	< 0,03	< 0,02	< 0,012	< 0,01 < 0,005
Temperaturkoeffizient des Mindestvorlastsignals <i>Temperature effect on S_{min}</i>	TK_{Smin}	% C_n / 10 K	< 0,028	< 0,014	< 0,014	< 0,01 < 0,007
Mindestvorlast / <i>Minimum dead load</i>	E_{min}	% E_{max}	0			
Grenzlaster / <i>Safe load limit</i>	E_{lim}	% E_{max}	150			
Bruchlast / <i>Ultimate load</i>	E_{el}	% E_{max}	300			
Nennmessweg bei E_{max} , ca. <i>Deflection at E_{max}, approx.</i>	s_{nom}	mm	< 0,3 für $E_{max} \leq 3000$ kg / < 0,5 für $E_{max} = 5000$ kg			
Nullsignal <i>Zero Output Signal</i>	S_{min}	% C_n	< 1,0			
Maximale Speisespannung <i>Excitation voltage, maximum</i>	U_{max}	V DC	28			
Nennbereich der Speisespannung <i>Nominal range of excitation voltage</i>	B_U	V	4...24			
Eingangswiderstand <i>Input resistance</i>	R_{ic}	Ω	650 \pm 6			
Ausgangswiderstand <i>Output resistance</i>	R_o	Ω	610 \pm 1	610 \pm 0,5		
Isolationswiderstand <i>Insulation impedance</i>	R_{is}	Ω	> 5000 x 10 ⁶ (100 V DC)			
Nenntemperaturbereich <i>Nominal temperature range</i>	B_T	°C	- 10 ... + 55			
Gebrauchstemperaturbereich <i>Operating temperature range</i>	B_{Tu}	°C	- 30 ... + 95			
Lagertemperaturbereich <i>Storage temperature range</i>	B_B	°C	- 40 ... + 95			
Vibrationsbeständigkeit <i>Vibration resistance</i>			20 x g, 100 h, 10 ... 150 Hz			
Umgebungsdruckeinfluss <i>Air pressure effect</i>	PK_{Smin}	% C_n / kPa	\leq 0,005	\leq 0,0025		
Werkstoff <i>Load cell material</i>			rostfreier Stahl 17-4 PH (1.4542) Stainless steel 17-4 PH (1.4542)			
Empf. Anzugsmoment d. Schrauben <i>Torque on fixation screws</i>		Nm	Handfest / handtight			
Kapselung <i>Sealing</i>			komplett hermetisch gekapselt complete hermetic sealing			

- a) für $E_{max} = 200$ kg bis $E_{max} = 3000$ kg: Genauigkeitsklasse C6;
for $E_{max} = 200$ kg up to $E_{max} = 3000$ kg: accuracy class C6;
- b) für $E_{max} = 50$ kg: 1 mV/V; $\gamma = 5000$;
for $E_{max} = 50$ kg: 1 mV/V; $\gamma = 5000$;
- c) für $E_{max} = 5000$ kg: nur Genauigkeitsklasse D1, C1, C2, C3;
for $E_{max} = 5000$ kg: only accuracy class D1, C1, C2, C3;



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Kabelanschluss / Wiring

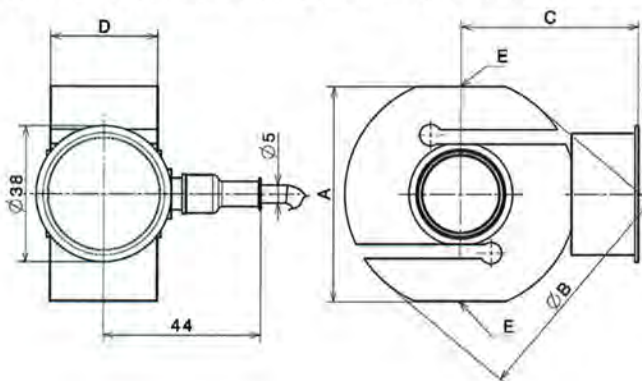
Die Wägezelle hat ein 4 / 6-adriges, abgeschirmtes Kabel. Die Kabellänge ist im Begleitdokument und auf dem Typenschild angegeben. Der Schirm an der Wägezelle ist je nach Kundenwunsch aufgelegt oder getrennt.

The load cell is provided with a shielded 4 / 6 conductor cable. The cable length is indicated in the accompanying document and on the name plate. The shield will be connected or not connected to the load cell according to customers preference.

Anschlussbelegung / Connections

Anschlussbelegung Connections	4-Leiter 4-wires	6-Leiter 6-wires
Speisung / Excitation +	rot / red	rot / red
Speisung / Excitation -	blau / blue	blau / blue
Signal / Signal +	grün / green	grün / green
Signal / Signal -	grau / grey	grau / grey
Fühler / Sense +	- / -	weiß / white
Fühler / Sense -	- / -	schwarz / black
Schirm / Shield	Gelb / transparent / ohne Isolation / yellow / transparent / without isolation	Gelb / transparent / ohne Isolation / yellow / transparent / without isolation
Kabellänge / Cable length	spezifiziert auf dem Typenschild specified on the name plate	

Wägezellen-Abmessungen in mm / Load cell dimensions in mm





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Type	A	B	C	D	E
PR 6241/51	60	65	49.7	23	M12
PR 6241/12	60	65	49.7	23	M12
PR 6241/22	60	65	49.7	23	M12
PR 6241/32	60	65	49.7	23	M12
PR 6241/52	60	65	49.7	23	M12
PR 6241/13	60	65	49.7	30	M12
PR 6241/23	60	65	49.7	30	M12
PR 6241/33	90	95	63.7	30	M20x1.5
PR 6241/53	90	95	63.7	35	M20x1.5

Bild 2: Abmessungen der Wägezelle Typ PR 6241
Figure 2: Dimensions of the load cell type PR 6241

Krafteinleitung, Beispiel / Force introduction, example

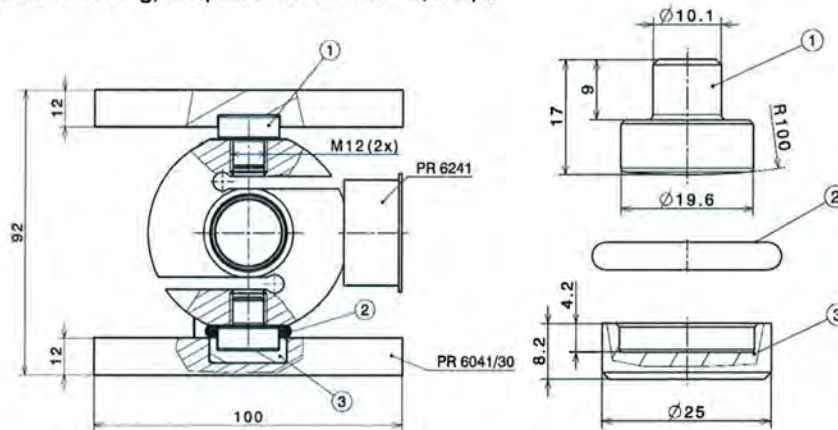


Bild 3: Beispiel einer Krafteinleitung für die Wägezelle Typ PR 6241 mit Grundplatte PR 6041/30
Figure 3: Example for a force introduction of the load cell type PR 6241 with baseplate PR 6041/30

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Abbestraße 2-12 • 10587 Berlin • DEUTSCHLAND

Konformitätsbewertungsstelle
Conformity Assessment Body

12.12 R60/2000-DE1-17.15



**Physikalisch-Technische Bundesanstalt
Braunschweig und Berlin**
Nationales Metrologieinstitut





OIML Certificate No.
R60/2000-DE1-17.15

OIML CERTIFICATE OF CONFORMITY

Issuing Authority

Name:	Physikalisch-Technische Bundesanstalt
Address:	Bundesallee 100, 38116 Braunschweig
Person responsible:	Dr. O. Mack

Applicant

Name:	Minebea Intec GmbH
Address:	Meiendorfer Str. 205 A, 22145 Hamburg

Manufacturer of the certified type is the applicant.

Identification of the certified type

Load Cell
Type: PR 6241
Further characteristics see page 2

This Certificate attests the conformity of the above identified type (represented by the sample or samples identified in the associated Test Report) with the requirements of the following Recommendation of the International Organization of Legal Metrology (OIML):

R60, edition 2000
for accuracy class(es) D1, C1 – C6

This Certificate relates only to the metrological and technical characteristics of the type of instrument covered by the relevant OIML Recommendation identified above.

This Certificate does not bestow any form of legal international approval.

R3-0033

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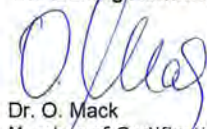


OIML Certificate No.
R60/2000-DE1-17.15

The conformity was established by the results of tests and examinations provided in the associated Test Reports

- No. PTB 1.12-4084762-4.1 that includes 22 pages
- No. PTB 1.12-4084762-4.2 that includes 22 pages
- No. PTB 1.12-4084762-5.1 that includes 18 pages
- No. PTB 1.12-4084762-5.2 that includes 18 pages
- No. PTB 1.12-4084762-6.1 that includes 18 pages
- No. PTB 1.12-4084762-6.2 that includes 18 pages


The Issuing Authority


Dr. O. Mack
Member of Certification Body



10.10.2017

The OIML Member


Prof. Dr. R. Schwartz
Vice President

10.10.2017

Table 1: Essential data

Accuracy class		D1	C1	C2	C3	C6
Maximum number of verification intervals	n_{LC}	1000		2000	3000	6000
Rated output	mV/V	1 / 2 (*)				
Nominal capacity	E_{max}	50 / 100 / 200 / 300 / 500 / 1000 / 2000 / 3000 / 5000 (*)				
Minimum load cell verification interval	$V_{min} = (E_{max} / Y)$	$E_{max} / 5000$	$E_{max} / 10000$		$E_{max} / 14000$	$E_{max} / 20000$
Minimum dead load output return	$DR = (\frac{1}{2} \cdot E_{max} / Z)$	$\frac{1}{2} \cdot E_{max} / 1000$		$\frac{1}{2} \cdot E_{max} / 2000$	$\frac{1}{2} \cdot E_{max} / 3000$	$\frac{1}{2} \cdot E_{max} / 8000$

Dead load: $0\% \cdot E_{max}$; Safe overload: $150\% \cdot E_{max}$; Input impedance: $650 \pm 6 \Omega$

(*) = PR 6241 with $E_{max} = 50$ kg at 1 mV/V // Nominal capacities 50 kg and 100 kg only D1, C1 and C2 // $Y = 5000$ for $E_{max} = 50$ kg // $E_{max} = 5$ t only D1, C1, C2 and C3. Accuracy class C6 for $E_{max} = 200$ kg up to 3000 kg.

Important note: Apart from the mention of the Certificate's reference number and the name of the OIML Member State in which the Certificate is issued, partial quotation of the Certificate and of the associated Test Report(s) is not permitted, although either may be reproduced in full.

12.13 17-127




Certificate Number: 17-127
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NATIONAL TYPE EVALUATION PROGRAM

Certificate of Conformance

for Weighing and Measuring Devices

<p>For: Load Cell Compression Model: PR 6241 Series n_{max}: 2000 to 8000, Class III, Multiple Cell 5000 to 10 000, Class IIII, Multiple Cell Capacity: 50 kg to 5000 kg Accuracy Class: III/IIII</p>	<p>Submitted By: Minebea Intec GmbH Meiendorfer Strasse 205 A 22145 Hamburg Germany Tel: +49.40.67960-238 Fax: +49.40.67960-500 Contact: Juergen Stolte Email: juergen.stolte@minebea-intec.com Web site: www.minebea-intec.com</p>
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Standard Features and Options

- The specific load cell models, capacities and v_{min} and n_{max} values covered by this Certificate are listed in the table on Page 2.
- Nominal Output: 2.0 mV/V (1.0 mV/V for 50 kg capacity only)
- Stainless Steel
- 4 and 6 Wire Design
- Minimum Dead Load: 0 kg

Temperature Range: -10 °C to 40 °C (14 °F to 104 °F)

This device was evaluated under the National Type Evaluation Program and was found to comply with the applicable technical requirements of "NIST Handbook 44: Specifications, Tolerances and Other Technical Requirements for Weighing and Measuring Devices." Evaluation results and device characteristics necessary for inspection and use in commerce are on the following pages:

 _____ James Cassidy Chairman, NCWM, Inc.	 _____ Kristin Macey Chairman, National Type Evaluation Program Committee Issued: November 8, 2017
---	---

1135 M Street, Suite 110 / Lincoln, Nebraska 68508

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Certificate Number: 17-127
Page 2 of 3

Minebea Intec GmbH

Load Cell / PR 6241 Series

Application: The load cells may be used in multiple cell applications Class III and III L consistent with the model designations, number of scale divisions, and parameters specified in this certificate. Load cells of a given accuracy class may be used in applications with lower accuracy class requirements provided the number of scale divisions, the v_{min} value, and temperature range are suitable for the application. The manufacturer may market the load cell with fewer divisions (n_{max}) and with greater v_{min} values than those listed on the certificate. However, the load cells will come with the appropriate n_{max} and v_{min} for which the load cell may be used.

Specific Capacities, n_{max} and v_{min} Values:

Model	Capacity	Class III Multiple Cell		Class III L Multiple Cell	
		v_{min} (g)	n_{max}	v_{min} (g)	n_{max}
PR 6241 Series	50 kg	10	2000	3	5000
	100 kg*	10	2000	3	10 000
	200 kg*	10	8000	3	10 000
	300 kg	15	8000	5	10 000
	500 kg	25	8000	8	10 000
	1000 kg *	50	8000	17	10 000
* load cells tested	2000 kg	100	8000	33	10 000
	3000 kg	150	8000	50	10 000
	5000 kg	357	5000	119	10 000

Identification: An adhesive identification badge located on the cell, states manufacturer name, model, serial number, accuracy class and rated capacity. Other pertinent information will be specified on the Calibration Certificate accompanying the cell.

Test Conditions: A 100 kg, 200 kg and a 1000 kg capacity load cell were tested by the Physikalische-Technische Bundesanstalt (PTB) the Braunschweig facility. Testing was conducted in accordance with the OIML DoMC Mutual Acceptance Arrangement, signed by the NCWM as a utilizing participant for load cell testing. Testing was conducted using deadweights as the reference standard. The load cells were tested over a temperature range of -10 °C to 55 °C with tests run on each cell at each temperature. The temperature effect on zero was measured and a time dependence (creep) test was performed. The barometric pressure test to determine sensitivity of the load cell design to changes in barometric pressure was conducted. The data were analyzed for multiple load cell applications. OIML R60 selection criteria were used to determine cells tested.

Evaluated By: Dr. O. Mack, J. Klein (PTB)

Type Evaluation Criteria Used: NIST, Handbook 44: Specifications, Tolerances and Other Technical Requirements for Weighing and Measuring Devices, 2017. NCWM, Publication 14: Weighing Devices, 2017.

Conclusion: The results of the evaluation and information provided by the manufacturer indicate the device complies with applicable requirements.

Information Reviewed By: J. Truex (NCWM)






Certificate Number: 17-127
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Minebea Intec GmbH
Load Cell / PR 6241 Series

Example of Device:



12.14 10045

 	
<p>10B Airline Drive Albany, New York 12235 800-554-4501 www.agriculture.ny.gov</p>	
<p><i>Certificate of Approval</i> for Weighing and Measuring Devices</p>	
<p>New York State Certificate Number: 10045 Effective Date: December 22, 2017</p>	
<p>NTEP Certificate of Conformance Number: 17-127</p>	
<p>For: Load Cell Compression Model: PR 6241 Series F_{max}: 2000 to 8000, Class III, Multiple Cell 5000 to 10 000, Class III_L, Multiple Cell Capacity: 50 kg to 5000 kg Accuracy Class: III/III_L</p>	<p>Submitted By: Minebea Intec GmbH Meiendorfer Strasse 205 A 22145 Hamburg Germany Tel: +49.40.67960-238 Fax: +49.40.67960-500 Contact: Juergen Stolte Email: juergen.stolte@minebea-intec.com Web site: www.minebea-intec.com</p>
<p>This certifies that the items specified in the above National Type Evaluation Program (NTEP) Certificate of Conformance are hereby approved for sale or use in the State of New York.</p> <p>The NTEP Certificate of Conformance, as issued by the National Conference on Weights and Measures, is accepted under the terms of 1NYCRR Part 220.1. Evaluation results and device characteristics necessary for inspection and use in commerce are stated in the NTEP Certificate of Conformance. Copies of the NTEP Certificate of Conformance are available on request and are available for inspection at the Bureau's Metrology Office at 6 Harriman Campus Road, Albany, NY 12206.</p>	
 <hr style="width: 20%; margin-left: auto; margin-right: 0;"/> <p>Michael Sikula, Director NYS Bureau of Weights and Measures</p>	
WM-23 (rev. 02/15) Duplicate Original	NTEP

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