

IPT-2*, CPT-2*

GB

Dust ignition protection by enclosure

4 ... 20 mA

4 ... 20 mA/HART

4 ... 20 mA/HART SIL

Profibus PA

Foundation Fieldbus

Modbus

Secondary Sensor for electronic differential pressure measurement (SIL)



CE 0158



IPT-2*, CPT-2*



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Supplementary documentation:

- Operating Instructions IPT-2*, CPT-2*
- Short Operating Instructions IPT-2*, CPT-2*
- EU-type approval certificate TÜV 18 ATEX 217856 X (Document ID: 57446)
- SIL Safety Manual Document ID: 48369)

Editing status: 2024-05-16

DE	Sicherheitshinweise für den Einsatz in explosionsgefährdeten Bereichen
EN	Safety instructions for the use in hazardous areas
FR	Consignes de sécurité pour une application en atmosphères explosibles
IT	Normative di sicurezza per l'impiego in luoghi con pericolo di esplosione
ES	Instrucciones de seguridad para el empleo en áreas con riesgo de explosión
PT	Normas de segurança para utilização em zonas sujeitas a explosão
NL	Veiligheidsaanwijzingen voor gebruik op plaatsen waar ontploffingsgevaar kan heersen
SV	Säkerhetsanvisningar för användning i explosionsfarliga områden
DA	Sikkerhedsforskrifter til anvendelse i explosionsfarlig atmosfære
FI	Turvallisuusohjeet räjähdyksvaarallisissa tiloissa käyttää varten
EL	Υποδείξεις ασφαλείας για τη χρησιμοποίηση σε περιοχές που υπάρχει κίνδυνος έκρηξης

DE	Die vorliegenden Sicherheitshinweise sind in den Sprachen deutsch, englisch, französisch und spanisch verfügbar. Weitere EU-Landessprachen stellt der Hersteller nach Anforderungen zur Verfügung.
EN	The present safety instructions are available in German, English, French and Spanish. Further EU languages will be provided by the manufacturer upon request.
FR	Les présentes consignes de sécurité sont disponibles dans les langues allemand, anglais, français et espagnol. Le fabricant met d'autres langues de l'Union Européenne à disposition en fonction des demandes.
ES	Las presentes instrucciones de seguridad están disponibles en los idiomas alemán, inglés, francés y español. El fabricante pone a disposición según demanda otros idiomas nacionales de la UE.

1 Area of applicability

These safety instructions apply to the process transmitter IPT-2*, CPT-2* series IPT-2*-*T/2/4*, CPT-2*-*T/2/4* according to EU type approval certificate TÜV 18 ATEX 217856 X (certificate number on the type label) and for all instruments with the number of the safety instruction (57445) on the type label.

2 General information

The process transmitters IPT-2*-*T/2/4*, CPT-2*-*T/2/4* are used for monitoring or control of levels and pressures also in areas with combustible, dust generating bulk solids.

The IPT-2*-*T/2/4*, CPT-2*-*T/2/4* consist of a metal process connection element, a sensor and a processing electronics in a metal housing.

The IPT-2*-*T/2/4*, CPT-2*-*T/2/4* are suitable for applications in hazardous atmospheres of combustible dusts, for applications requiring instruments of category 1D, 1/3D, 1/2-D or 2D.

If the IPT-2*-*T/2/4*, CPT-2*-*T/2/4* are installed and operated in hazardous areas, the general Ex installation regulations EN 60079-14 as well as these safety instructions must be observed.

The operating instructions as well as the installation regulations or standards that apply for explosion protection of electrical systems must generally be observed.

The installation of explosion-endangered systems must always be carried out by qualified personnel.

The requirements of EN 61241-1 e.g. with respect to dust deposits and temperatures must be fulfilled.

Category 1D instruments

The IPT-2*-*T/2/4*, CPT-2*-*T/2/4* are installed in hazardous areas requiring an instrument of category 1D.

Category 1/2D instruments

The electronics housing is installed in hazardous areas requiring instruments of category 2D. The process connection element is installed in the separating wall, which separates areas requiring instruments of category 2D or 1D. The sensor with the mechanical fixing element is installed in hazardous areas requiring instruments of category 1D.

Category 1/3D instruments

The electronics housing is installed in hazardous areas requiring instruments of category 3D. The process connection element is installed in the separating wall, which separates areas requiring instruments of category 3D or 1D. The sensor with the mechanical fixing element is installed in hazardous areas requiring instruments of category 1D.

Category 1/2-D instruments

The process connection element is installed in the separating wall, which separates areas in which instruments of category 2D or 1D are required. The sensor with the mechanical fixing element is installed in hazardous area requiring instruments of category 1D. The electronics housing is installed in safe areas outside hazardous areas.

Category 2D instruments

The IPT-2*-*T/2/4*, CPT-2*-*T/2/4* are installed in hazardous areas requiring an instrument of category 2D.

Type of protection marking:

Instruments with a gas/dust combination approval and two classification marks on the type label can be either used in gas or dust.

Instruments with an "Ex t/Ex ia" combination approval and two classification marks on the type label, the instrument must no longer be used as intrinsically safe instrument after a non-intrinsically safe power supply.

- IPT-2*-*T*-*I/P/N/M***_**_*****_*****_***_**
- CPT-2*-*T*-*I/P/N/M***_**_*****_*****_***_**
- in compact housing version
 - II 1D, 1/2D, 1/3D, 2D Ex ta ia, ia/tb, ia/tc, tb ia IIIC TX°C Da, Da/Db, Da/Dc, Db
 - T: see thermal characteristics
- IPT-2*-*2*-*I/P/N/M***_**_*****_*****_***_**
- CPT-2*-*2*-*I/P/N/M***_**_*****_*****_***_**
- in compact housing version
 - II 1D, 1/2D, 1/3D, 2D Ex ta ia, ia/tb, ia/tc, tb ia IIIC TX°C Da, Da/Db, Da/Dc, Db
 - T: see thermal characteristics
 - II 1G, 1/2G, 2G Ex ia IIC T6 ... T1 Ga, Ga/Gb, Gb
- IPT-2*-*4*-*I/P/N/M***_**_*****_*****_***_**
- CPT-2*-*4*-*I/P/N/M***_**_*****_*****_***_**
- in compact housing version
 - II 1D, 1/2D, 1/3D, 2D Ex ta ia, ia/tb, ia/tc, tb ia IIIC TX°C Da, Da/Db, Da/Dc, Db
 - T: see thermal characteristics
 - II 1/2G, 2G Ex d ia IIC T6 ... T1 Ga/Gb, Gb
- IPT-2*-*T*-*A/S***_**_*****_*****_***_**
- CPT-2*-*T*-*A/S***_**_*****_*****_***_**
- with remote housing
 - II 1/2-D, 1/2D Ex ia/ia/-, ia/tb ia IIIC TX°C Da/Db/-, Da/Db
 - T: see thermal characteristics
- IPT-2*-*2*-*A/S***_**_*****_*****_***_**
- CPT-2*-*2*-*A/S***_**_*****_*****_***_**
- with remote housing
 - II 1/2-D, 1/2D Ex ia/ia/-, ia/tb ia IIIC TX°C Da/Db/-, Da/Db
 - T: see thermal characteristics
 - II 1/2G, 2G Ex ia IIC T6 ... T1 Ga/Gb, Gb

3 Specific conditions of use ("X" identification)

- For EPL Da or EPL Da/Db applications, there is a risk of ignition due to impact or friction on the metallic parts of the process transmitters made of light metal, see also chapter "*Impact and friction sparks*".
- For EPL Da or EPL Da/Db applications and in case of hazards due to swinging or oscillation, the corresponding parts of the process transmitters must be effectively secured against these hazards, see also chapter "*Installation/Mounting*".
- For EPL Da or EPL Da/Db applications the wetted materials of the process transmitters must be resistant against these media, see also chapter "*Material resistance*".
- For the version with separate housing of the process transmitter, potential equalisation must exist in the entire area of the installation of the connecting cable between the electronics housing and the sensor housing, see also chapter "*Installation of the IPT-2* and CPT-2* with separate housing*".
- For EPL Da or EPL Da/Db applications, the cable entries and the blind plugs in the enclosure must be suitably certified for an operating temperature range of -40 °C to +80 °C or the manufacturer's cable entries and blind plugs must be used, see also "*Dust ignition protection by enclosure "t_{ms}"*".
- The process transmitter with integrated electronics "*Four-wire with Modbus barrier*" must not be used for EPL Da applications.

4 Technical data

4.1 Electrical data

Electrical data of the supply circuits

IPT-2*-*T/2/4*, CPT-2*-*T/2/4*

Power supply and signal circuit: (terminals 1[+], 2[-] in electronics compartment; with double chamber housing version in connection compartment)

$U_n = 9.6 \dots 30 \text{ V DC}$
 $I_n = 4 \dots 22 \text{ mA}$

IPT-2* or CPT-2*-*T/2/4*-**B-H/S*-*****-*****, version with supplementary electronics B and HART output signal H or S with SIL qualification**

Power supply and signal circuit I: (terminals 1[+], 2[-] in the connection compartment)

$U_n = 9.6 \dots 30 \text{ V DC}$
 $I_n = 4 \dots 22 \text{ mA}$

Power supply and signal circuit II: (terminals 17[+], 18[-] in the connection compartment)

$U_n = 9.6 \dots 30 \text{ V DC}$
 $I_n = 4 \dots 22 \text{ mA}$

IPT-2* or CPT-2*-*T/2/4*-**-P/F*-*****-*****, version with output signal P (Profibus PA) and F (Foundation Fieldbus)**

Power supply and signal circuit: (terminals 1[+], 2[-] in electronics compartment; with double chamber housing version in connection compartment)

$U_n = 9.6 \dots 32 \text{ V DC}$
 $I_n = 4 \dots 11 \text{ mA}$

IPT-2* or CPT-2*-*T/2/4*-**-R/T*-*****-*****, version with Secondary electronics R or T for electronic differential pressure**

Power supply and signal circuit I: (terminals 5, 6, 7, 8)

For connection of an IPT-2* or CPT-2* with selected output signal H/S/P/F as differential pressure measurement.

IPT-2* or CPT-2*-*T/2/4*-**-H/S/P/F*-*****-*****, version for connection of an external display and adjustment unit for HART H and S and bus electronics P and F**

Power supply and signal circuit I: (terminals 5, 6, 7, 8)

For connection to the circuit (terminals 5, 6, 7, 8) of the corresponding external display and adjustment unit DI-PT-E or for connection of a IPT-2* or CPT-2* with selected output signal R or T as differential pressure measurement.

IPT-2* or CPT-2*-*T*-**-A/H*-*****-*****, version 4 ... 20 mA A and 4 ... 20 mA/HART without SIL H**

Power supply and signal circuit: (terminals 1[+], 2[-] in electronics compartment; with double chamber housing version in connection compartment)

$U_n = 9.6 \dots 30 \text{ V DC}$
 $I_n = 4 \dots 22 \text{ mA}$

Max. surface temperature

- | | |
|---|---------------------------|
| – Electronics housing (electronics A/H/S/R/T/P/F) | Ambient temperature +3 K |
| – Sensor | Ambient temperature +41 K |

As category 1/2D, 1/3D instrument, with type code IPT-2*-*-*****-**-*****-****E/A/C/Q/F/O***-***-** for extended process temperature and IPT-2*-***-*****-**-*****-****H/T***-***-** for high temperature version**

Permissible temperature range

- | | |
|-----------------------|--|
| – Electronics housing | -40 ... +60 °C |
| – Sensor | -40 ... +130 °C, IPT-2* or CPT-2*-***-*****-**-*****-****O***-***-** |

Max. surface temperature

- | | |
|---|---------------------------|
| – Electronics housing (electronics A/H/S/R/T/P/F) | Ambient temperature +18 K |
| – Sensor | Ambient temperature +41 K |

Permissible temperature range

- | | |
|-----------------------|--|
| – Electronics housing | -40 ... +60 °C |
| – Sensor | -40 ... +150 °C, IPT-2* or CPT-2*-***-*****-**-*****-****E/A/C/Q/F***-***-** |

Max. surface temperature

- | | |
|---|---------------------------|
| – Electronics housing (electronics A/H/S/R/T/P/F) | Ambient temperature +18 K |
| – Sensor | Ambient temperature +41 K |

Permissible temperature range

- | | |
|-----------------------|--|
| – Electronics housing | -40 ... +60 °C |
| – Sensor | -40 ... +180 °C, IPT-2* or CPT-2*-***-*****-**-*****-****H***-***-** |

Max. surface temperature

- | | |
|---|---------------------------|
| – Electronics housing (electronics A/H/S/R/T/P/F) | Ambient temperature +14 K |
| – Sensor | Ambient temperature +41 K |

Permissible temperature range

- | | |
|-----------------------|--|
| – Electronics housing | -40 ... +60 °C |
| – Sensor | -40 ... +200 °C, IPT-2* or CPT-2*-***-*****-**-*****-****T***-***-** |

Max. surface temperature

- | | |
|-----------------------|---------------------------|
| – Electronics housing | Ambient temperature +15 K |
| – Sensor | Ambient temperature +41 K |

As category 1/2-D instruments

Permissible temperature range

- | | |
|-----------------------|----------------|
| – Electronics housing | -40 ... +60 °C |
|-----------------------|----------------|

Max. surface temperature

– Sensor

Ambient temperature +41 K

Protection according to EN 60529

Protection rating

On the sensor, category 1D or 2D IP 68

On the electronics housing, category 1D IP 68
or 2D

Permissible operating pressure

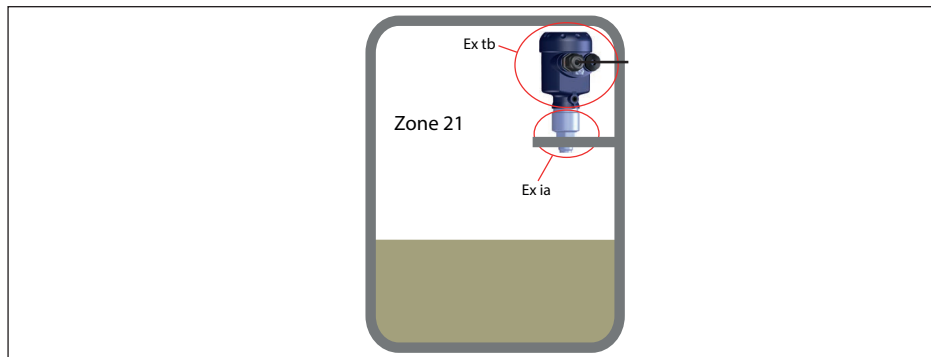
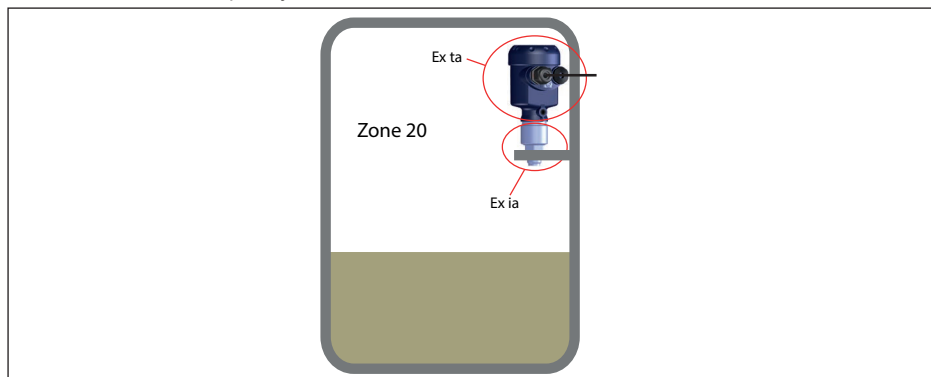
For operation in hazardous atmospheres the process pressure must be between 0.8 ... 1.1 bar.

The application conditions during operation without explosive mixtures are mentioned in the operating instructions manuals.

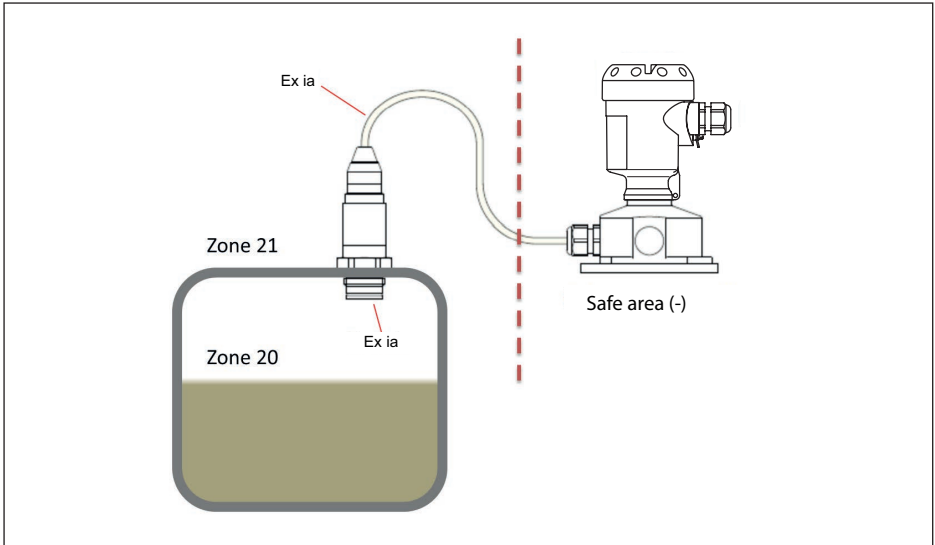
5 Installation possibilities: Version with compact housing

Category 1D and 2D instrument

Sensor is mounted completely in zone 20

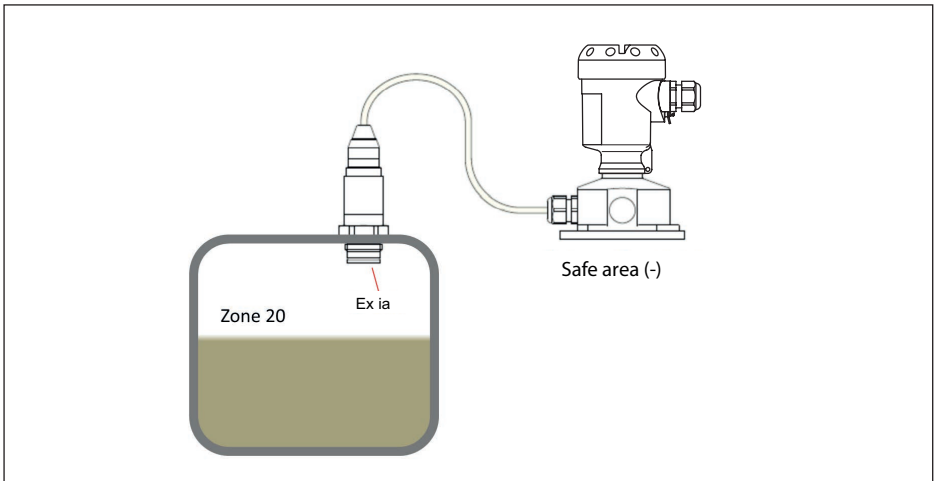


- The thermal data for category 2D instruments must be considered

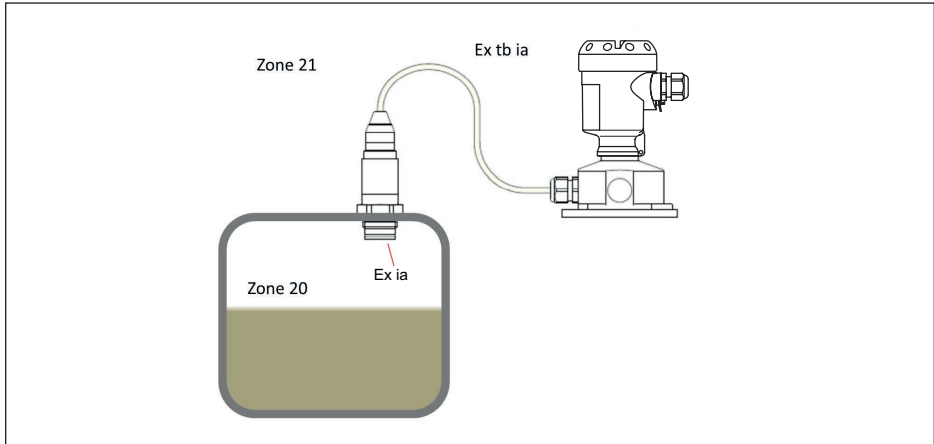


- The connection cable is an intrinsically safe circuit
- For the electronics and connection housing, the cable entries and the filter element, no special Ex-technical requirements (also plastic housing and plug connectors permitted) are applicable

Electronics and connection housing as well as connection cable in safe area



- The connection cable is an intrinsically safe circuit
- For the electronics and connection housing, the cable entries and the filter element, no special Ex-technical requirements (also plastic housing and plug connectors permitted) are applicable



- The connection cable is an intrinsically safe circuit
- For the electronics and connection housing, the cable entries and the filter element, the Ex-technical requirements for zone 21 (only stainless steel and Aluminium housing with cable entries suitable and certified for dust-Ex and no plug connectors permitted) are applicable

7 Grounding/Potential equalization

The IPT-2*-*T/2/4*, CPT-2*-*T/2/4* must be grounded.

With the version with separate housing of the pressure transmitters IPT-2*-*T/2/4*, CPT-2*-*T/2/4*, the potential equalization must be provided in the complete range of the connection cable between electronics housing and transmitter housing.

8 Cable entries

The supplied cable entry is suitable for the housing temperature range specified in the IPT-2*-*T/2/4*, CPT-2*-*T/2/4* certificate.

Cable entries must only be replaced by the same types or suitable cable entries/glands which are certified according to ATEX with at least IP66.

If a different cable entry is used, the separately certified cable entry determines the max. permissible ambient temperature on the electronics housing (max. values: -40 °C, +80 °C).

9 Material resistance

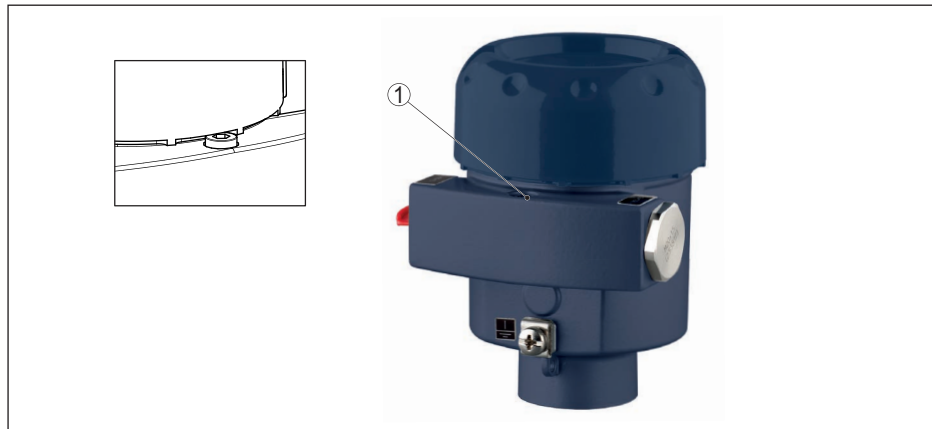
The IPT-2*-*T/2/4*, CPT-2*-*T/2/4* must only be used in media against which the materials of the wetted parts are sufficiently resistant.

10 Locking mechanism of housing cover

With single-chamber housing versions, the lid must be screwed in to the stop and secured with the locking device before setup and use of IPT-2*-*T/2/4*, CPT-2*-*T/2/4* in hazardous atmospheres.

With double-chamber housing versions, the lid of the connection compartment and the lid of the electronics compartment must be screwed in to the stop and secured with the corresponding locking device before setup and use of IPT-2*-*T/2/4*, CPT-2*-*T/2/4* in hazardous atmospheres.

Single chamber housing



1 Locking screw of the lid

Double chamber housing



1 Locking screw of the lid

11 Installation/construction

For applications as category 1D or 2D instruments there is a danger of ignition by shocks and friction on the metal parts of the pressure transmitters of light metal.

The IPT-2*-*T/2/4*, CPT-2*-*T/2/4* have to be mounted so that the sensor is effectively secured against bending or oscillating as well as contact of the sensor to the vessel wall, under consideration of the vessel installations and flow conditions in the vessel.

With IPT-2* and CPT-2*_*T*_*-*****-U*_*-*****-*****-***_**, the USB connection must only be connected for service purposes or parameter adjustment if there is no atmospheric atmosphere present.

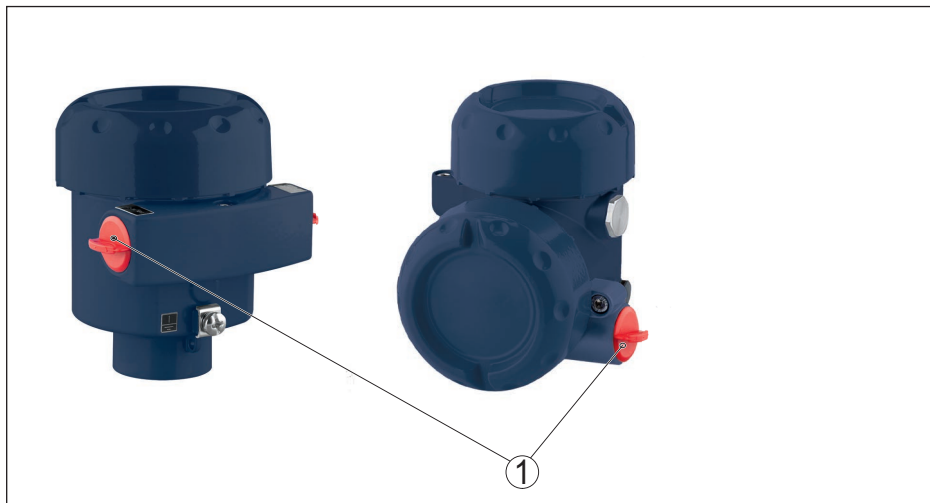
13 Mounting with external display and adjustment unit DI-PT-E

The signal circuit between IPT-2*-*T/2/4*, CPT-2*-*T/2/4* and the external display and adjustment unit DI-PT-E should be set up without grounding. The required insulation voltage is > 500 V AC. When using the connection cable included with the delivery, this requirement is fulfilled. If grounding of the cable screen is required, it must be carried out according to EN 60079-14.

14 Removing and replacing the red threaded/dust cover

The red thread or/dust covers screwed in when the instrument is shipped (depending on the version) must be removed before setup. The openings must be closed before setup by a way approved for the ignition protection type. Approved and suitable cable glands or blind plugs must be installed according to the supplied documents.

Before setting up IPT-2*-T/2/4*, CPT-2*-T/2/4* you have to check if all other openings are closed in a way approved for the ignition protection type.



1 Red thread or dust cover must be removed before setup. The opening must be closed before setup by a way approved for the ignition protection type.

15 Impact and friction sparks

When used as category 1G or 1/2G instruments, the IPT-2*-T/2/4*, CPT-2*-T/2/4* in aluminium/titanium versions must be mounted in such a way that sparks from impact and friction between aluminium/titanium and steel (except stainless steel, if the presence of rust particles can be excluded) cannot occur.

16 Ignition protection type dust explosion protection by housing "t"

- The terminals for connecting the operating voltage or signal circuits are integrated in the connection compartment with type of protection dust explosion protection by housing "t"

- Cable, wire entries and the closing screws must be certified acc. to ignition protection type dust ignition protection by enclosure "t"
- Cable, wire entries resp. the closing screws in simple construction must not be used
- Separately certified cable and wire entries can determine the permissible ambient temperature range or the temperature classes

17 EU declaration of conformity



EU-Konformitätserklärung
EU Declaration of Conformity

Dokument Nr.: 14238056
Document No.:

Revision 04
Issue

Wir erklären in alleiniger Verantwortung, dass die mit CE gekennzeichneten Produkte
We declare under our sole responsibility that the CE marked products

Typenbezeichnung IPT-2*-...⁽³⁾
Type Designation CPT-2*-...⁽³⁾
Beschreibung Prozesstransmitter
Description Process transmitter

gemäß gültigem Datenblatt PE 86.06, PE 86.07
according to the valid data sheet

mit den nachfolgenden relevanten Harmonisierungsvorschriften der Union übereinstimmen
are in conformity with the following relevant Union harmonisation legislation

Angewandte harmonisierte Normen oder sonstige technische Spezifikationen:
Applied harmonised standards or other technical specifications:

2011/65/EU	Gefährliche Stoffe (RoHS) Hazardous substances (RoHS)	EN IEC 63000:2018
2014/68/EU	Druckgeräterichtlinie (DGRL) ⁽¹⁾ Pressure Equipment Directive (PED) ⁽¹⁾	-
2014/30/EU	Elektromagnetische Verträglichkeit (EMV) Electromagnetic Compatibility (EMC)	EN 61326-1:2013 EN 61326-2-3:2013 EN 61326-2-5:2013 ⁽²⁾
2014/34/EU	Explosionsschutz (ATEX) ⁽³⁾ Explosion protection (ATEX) ⁽³⁾	

(1) IPT-2* Series PS > 200 bar; Modul A, druckhaltendes Ausrüstungsteil
IPT-2* Series PS > 200 bar; Module A, pressure accessory

(2) Profibus PA, Foundation Fieldbus
Profibus PA, Foundation Fieldbus

(3) detaillierte Angaben siehe Anhang
detailed information refer to Annex

Unterzeichnet für und im Namen von / Signed for and on behalf of

WIKA Alexander Wiegand SE & Co. KG
Klingenberg, 2024-03-20

Matthias Kirch, Vice President
Center of Excellence Pressure

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Amtsgericht Aschaffenburg HRA 1919

Komplementärin:
WIKA International SE - Sitz Klingenberg -
Amtsgericht Aschaffenburg HRB 10505
Vorstand: Alexander Wiegand
Vorsitzender des Aufsichtsrats: Prof. Dr. Roderich C. Thümmel
22AR-04340

14238056.04, Anhang / Annex

Kennzeichnung Marking	Harmonisierte Normen Harmonized standards	Typenbezeichnung Type Designation	Zertifikat ⁽⁴⁾ Certificate ⁽⁴⁾
 II 1/2G Ex db ia IIC T6...T1 Ga/Gb II 2G Ex db ia IIC T6...T1 Gb	EN 60079-0:2012+A11:2013 Stimmt auch überein mit / also complies with EN IEC 60079-0:2018 EN 60079-1:2014 EN 60079-11:2012 EN 60079-26:2015	IPT-2*-D*-*****-AH/IS/PI/RI/T*-*****S*Z*-***** CPT-2*-D*-*****-AH/IS/PI/RI/T*-*****S*Z*-*****	TÜV 17 ATEX 203304 X
 II 1G Ex ia IIC T6...T1 Ga II 1/2G Ex ia IIC T6...T1 Ga/Gb II 2G Ex ia IIC T6...T1 Gb	EN 60079-0:2012+A11:2013 Stimmt auch überein mit / also complies with EN IEC 60079-0:2018 EN 60079-11:2012 EN 60079-26:2015	IPT-2*-I*-*****-AH/IS/PI/RI/T*-*****S*Z*-***** CPT-2*-I*-*****-AH/IS/PI/RI/T*-*****S*Z*-*****	TÜV 18 ATEX 217855 X
 II 1D Ex ia ta IIC TX °C Da II 1/2D Ex ia/tb IIC TX °C Da/Db II 1/3D Ex ia/tc IIC TX °C Da/Dc II 2D Ex ia/tb IIC TX °C Db II 1/2-D Ex ia/ta IIC TX °C Da/Da/Dc II 1/2D Ex ia/tb ta IIC TX °C Da/Da/Dc	EN 60079-0:2012+A11:2013 Stimmt auch überein mit / also complies with EN IEC 60079-0:2018 EN 60079-11:2012 EN 60079-31:2014	IPT-2*-T*-*****-AH/IS/PI/RI/TU*-*****S*Z*-***** CPT-2*-T*-*****-AH/IS/PI/RI/TU*-*****S*Z*-*****	TÜV 18 ATEX 217856 X
 II 1/2G Ex db ia IIC T6...T1 Ga/Gb II 2G Ex db ia IIC T6...T1 Gb II 1/2D Ex ia/tb IIC TX °C Da/Da/Dc II 2D Ex ia/tb IIC TX °C Db II 1/2-D Ex ia/ta IIC TX °C Da/Da/Dc II 1/2D Ex ia/tb ta IIC TX °C Da/Da/Dc	EN 60079-0:2012+A11:2013 Stimmt auch überein mit / also complies with EN IEC 60079-0:2018 EN 60079-11:2012 EN 60079-26:2015 EN 60079-31:2014	IPT-2*-4*-*****-AH/IS/PI/RI/T*-*****S*Z*-***** CPT-2*-4*-*****-AH/IS/PI/RI/T*-*****S*Z*-*****	TÜV 17 ATEX 203304 X TÜV 18 ATEX 217856 X
 II 1G Ex ia IIC T6...T1 Ga II 1/2G Ex ia IIC T6...T1 Ga/Gb II 2G Ex ia IIC TX °C Da II 1D Ex ia ta IIC TX °C Da II 1/2D Ex ia/tb IIC TX °C Da/Da/Dc II 2D Ex ia/tb IIC TX °C Db II 1/2-D Ex ia/ta IIC TX °C Da/Da/Dc II 1/2D Ex ia/tb ta IIC TX °C Da/Da/Dc	EN 60079-0:2012+A11:2013 Stimmt auch überein mit / also complies with EN IEC 60079-0:2018 EN 60079-11:2012 EN 60079-26:2015 EN 60079-31:2014	IPT-2*-2*-*****-AH/IS/PI/RI/T*-*****S*Z*-***** CPT-2*-2*-*****-AH/IS/PI/RI/T*-*****S*Z*-*****	TÜV 18 ATEX 217855 X TÜV 18 ATEX 217856 X

(4) EU-Baumusterprüfbescheinigungen von TÜV NORD CERT GmbH, D-45141 Essen (Reg.-Nr. 0044)
EU type examination certificates of TÜV NORD CERT GmbH, D-45141 Essen (Reg.-Nr. 0044)

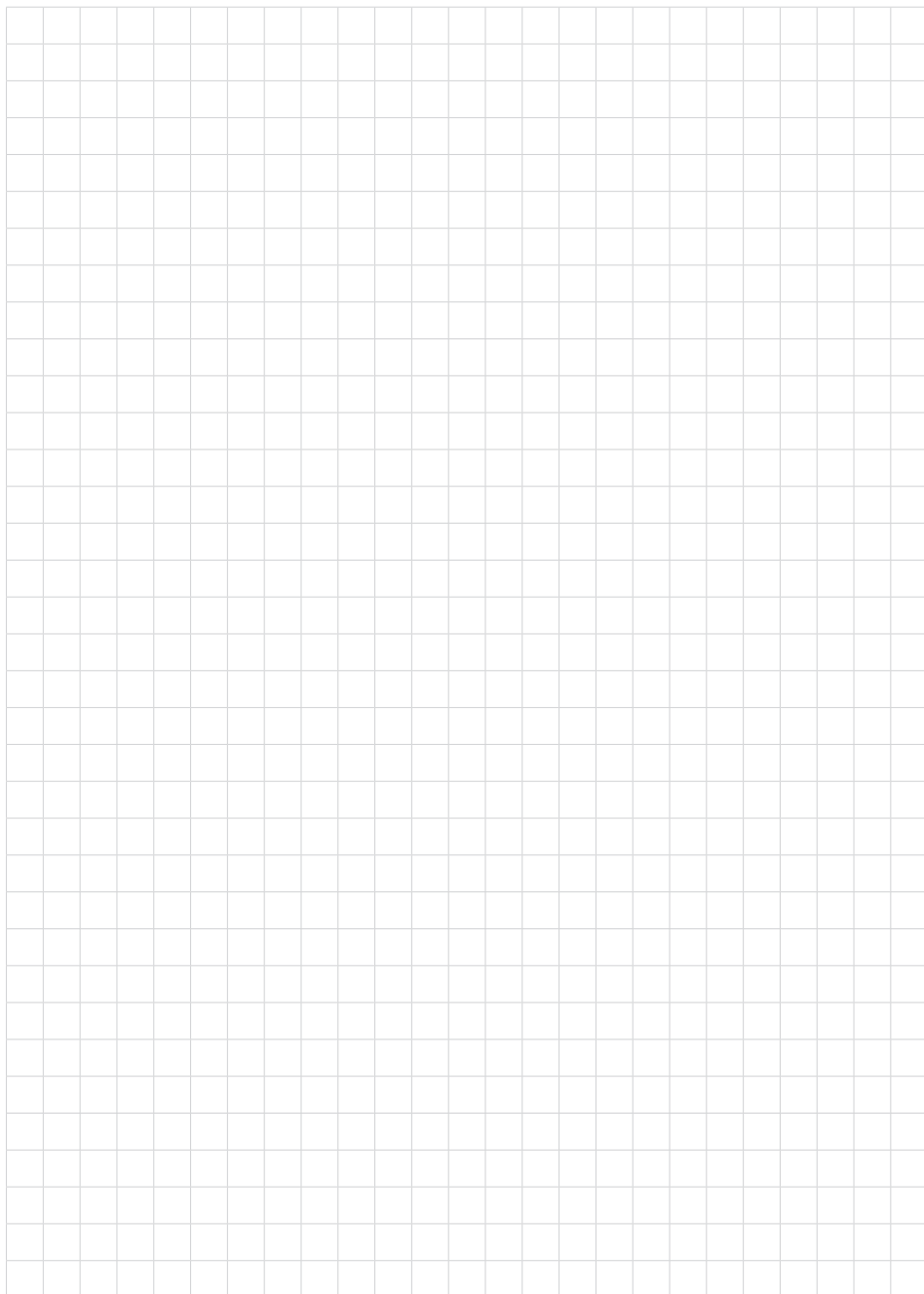
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All statements concerning scope of delivery, application, practical use and operating conditions of the sensors and processing systems correspond to the information available at the time of printing.



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