

IPT-2*, CPT-2*

GB

Flameproof enclosures

4 ... 20 mA

4 ... 20 mA/HART

Profibus PA

Foundation Fieldbus

Secondary Sensor for electronic differential pressure measurement



CE 0158

IPT-2*, CPT-2*



Contents

1	Area of applicability	4
2	General information	4
3	Specific conditions of use ("X" identification)	4
4	Technical data	5
5	Application conditions	7
6	Protection against static electricity	9
7	Use of an overvoltage arrester	9
8	Grounding.....	9
9	Impact and friction sparks	10
10	Material resistance	10
11	Installation/construction	10
12	Type of protection flameproof enclosure Ex "db"	10
13	Installation of the IPT-20/21-*D/4*, CPT-20/21-*D/4* with separate housing	13
14	Type and size of the threads for the "Ex db" cable entries	13
15	Removing and replacing the red threaded/dust cover	13
16	EU declaration of conformity.....	15

Supplementary documentation:

- Operating Instructions CPT-2*, IPT-2*
- EU-type approval certificate TÜV 17 ATEX 203304 X (Document ID: 56042)

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 käyttööä 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 transmitters CPT-20/21-*D/4* and IPT-20/21-*D/4* with integrated electronics A (4 ... 20 mA), H (4 ... 20 mA/HART), S (4 ... 20 mA/HART with SIL qualification), P (Profibus PA), F (Foundation Fieldbus), R, T (differential pressure measurement) according to EU type approval certificate TÜV 17 ATEX 203304 X (certificate number on the type label) and for all instruments with the number of the safety instruction (56041) on the type label.

2 General information

The pressure-based measuring instruments IPT-20/21-*D/4*, CPT-20/21-*D/4* are also used for pressure and level measurement in hazardous areas.

The measured products can also be combustible liquids, gases, mist or vapour.

The IPT-20/21-*D/4*, CPT-20/21-*D/4* consist of an "Ex db" electronics housing with integrated electronics module, a process connection element and a sensor, the pressure measuring cell with optionally connected chemical seal. As an option, the display and adjustment module can also be mounted.

The IPT-20/21-*D/4*, CPT-20/21-*D/4* are suitable for use in hazardous atmospheres of all combustible materials of explosion group IIA, IIB and IIC for applications requiring instruments of category 1/2G or category 2G.

If the IPT-20/21-*D/4*, CPT-20/21-*D/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 and standards that apply for explosion protection of electrical systems must always be observed.

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

Category 1/2G instrument (EPL Ga/Gb instrument)

The process connection element is installed in the separating wall, which separates areas in which instruments of category 2G or 1G are required. The electronics housing is installed in hazardous areas requiring instruments of category 2G. The sensor is installed in hazardous areas requiring instruments of category 1G.

Category 2G instrument (EPL Gb instrument)

The IPT-20/21-*D/4*, CPT-20/21-*D/4* are installed in hazardous areas requiring instruments of category 2G.

3 Specific conditions of use ("X" identification)

- There is a risk of ignition due to electrostatic discharge on the plastic parts of the process transmitters, see also chapter *"Protection against the risk of static electricity"*.
- For EPL Ga/Gb 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 Ga/Gb 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 Ga/Gb 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"*.

- The flameproof enclosure of this device must be equipped with suitable cable entries and sealing plugs or pipe sealing facilities certified according to EN 60079-0 and EN 60079-1. The connection cables, the cable entries and sealing plugs or pipe sealing facilities must be suitable for the lowest ambient temperature, see also chapter "Type and size of the threads "Ex db" cable entries"

4 Technical data

IPT-20/21 and CPT-20/21 with integrated electronics A (4 ... 20 mA), H (4 ... 20 mA/HART), S (4 ... 20 mA/HART with SIL qualification)

IPT-20/21-*D/4*, CPT-20/21-*D/4* with integrated electronics A (4 ... 20 mA), H (4 ... 20 mA/HART), S (4 ... 20 mA/HART with SIL qualification), version with single chamber housing A, V

Power supply and signal circuit: (terminals 1[+], 2[-] in the electronics compartment)	• $U_i = 9.6 \dots 35 \text{ V DC}$ • $U_m = 253 \text{ V AC}$
Indicating and adjustment circuit: (terminals 5, 6, 7, 8)	For connection to the circuit of the corresponding external display and adjustment unit DI-PT-E in ignition protection type flameproof enclosure "d" or for connection of an IPT-20/21 and CPT-20/21 in ignition protection type flameproof enclosure "Ex db" with integrated electronics R or T as differential pressure measurement.
Circuit for the display and adjustment module: (spring contacts in the .electronics compartment)	For connection to the display and adjustment module DI-PT-A.

IPT-20/21-*D/4*, CPT-20/21-*D/4* with integrated electronics A (4 ... 20 mA), H (4 ... 20 mA/HART), S (4 ... 20 mA/HART with SIL qualification), version with double chamber housing D, W

Power supply and signal circuit: (terminals 1[+], 2[-] in the connection compartment)	• $U_i = 9.6 \dots 35 \text{ V DC}$ • $U_m = 253 \text{ V AC}$
Indicating and adjustment circuit: (terminals 5, 6, 7, 8)	For connection to the circuit of the corresponding external display and adjustment unit DI-PT-E in ignition protection type flameproof enclosure "d" or for connection of an IPT-20/21 and CPT-20/21 in ignition protection type flameproof enclosure "Ex db" with integrated electronics R or T as differential pressure measurement.
Circuit for the display and adjustment module: (spring contacts in the .electronics compartment)	For connection to the display and adjustment module DI-PT-A.

IPT-20/21 and CPT-20/21 with integrated electronics P (Profibus PA), F (Foundation Fieldbus)

IPT-20/21-*D/4*, CPT-20/21-*D/4* with integrated electronics P (Profibus PA), F (Foundation Fieldbus), version with single chamber housing A, V

Power supply and signal circuit: (terminals 1[+], 2[-] in the electronics compartment)	• $U_i = 9 \dots 32 \text{ V DC}$ • $U_m = 253 \text{ V AC}$
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Indicating and adjustment circuit: (terminals 5, 6, 7, 8)	For connection to the circuit of the corresponding external display and adjustment unit DI-PT-E in ignition protection type flameproof enclosure "d" or for connection of an IPT-20/21 and CPT-20/21 in ignition protection type flameproof enclosure "Ex db" with integrated electronics R as differential pressure measurement.
Circuit for the display and adjustment module: (spring contacts in the .electronics compartment)	For connection to the display and adjustment module DI-PT-A.

IPT-20/21-*D/4*, CPT-20/21-*D/4* with integrated electronics P (Profibus PA), F (Foundation Fieldbus), version with double chamber housing D, W

Power supply and signal circuit: (terminals 1[+], 2[-] in the connection compartment)	• $U_i = 9 \dots 32 \text{ V DC}$ • $U_m = 253 \text{ V AC}$
Indicating and adjustment circuit: (terminals 5, 6, 7, 8)	For connection to the circuit of the corresponding external display and adjustment unit DI-PT-E in ignition protection type flameproof enclosure "d" or for connection of an IPT-20/21 and CPT-20/21 in ignition protection type flameproof enclosure "Ex db" with integrated electronics R as differential pressure measurement.
Circuit for the display and adjustment module: (spring contacts in the .electronics compartment)	For connection to the display and adjustment module DI-PT-A.

IPT-20/21 and CPT-20/21 with integrated electronics R or T, for differential pressure measurement

IPT-20/21-*D/4*, CPT-20/21-*D/4* with integrated electronics R or T, for differential pressure measurement

Power supply and signal circuit: (terminals 5, 6, 7, 8 in the electronics compartment)	For connection to a IPT-20/21-*D/4*, CPT-20/21-*D/4* with integrated electronics H, A, P, F for differential pressure measurement
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IPT-20/21 and CPT-20/21 version with separate cable outlet

IPT-20/21-*D/4*, CPT-20/21-*D/4* Version with separate cable outlet (all electronics)

Circuit between sensor unit and external electronics (terminal 1- yellow, terminal 2 - white, terminal 3 - red, terminal 4 - black)	In type of protection intrinsic safety Ex ia IIC With IPT-20/21-*D/4*, CPT-20/21-*D/4* in the version with fix mounted cable on the sensor unit and external electronics, the supplied cable between the external housing and the sensor unit must not exceed a length of 180 m.
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The metallic parts of IPT-20/21-*D/4*, CPT-20/21-*D/4* are electrically connected with the earth terminals.

The intrinsically safe circuits to the sensor are galvanically connected to ground potential.

5 Application conditions

IPT-20/21-*D/4*, CPT-20/21-*D/4* with integrated electronics A (4 ... 20 mA), H (4 ... 20 mA/HART) or S (4 ... 20 mA/HART with SIL qualification), P (Profibus PA), F (Foundation Fieldbus) or R, T (differential pressure measurement)

The max. permissible ambient temperatures depending on the temperature classes are specified in the following tables.

Category 1/2G (EPL Ga/Gb instruments)

Temperature class	Ambient temperature on the electronics (Zone 1)		Product temperature range (sensor, zone 0)
	Housing lid without inspection window	Housing lid with inspection window	
T6	-60 ... +60 °C	-50 ... +60 °C	-20 ... +23 °C
T5, T4, T3, T2, T1	-60 ... +70 °C	-50 ... +70 °C	-20 ... +60 °C

For applications requiring instruments of category 1/2G the process pressure of the media must be between 0.8 ... 1.1 bar. The 80% consideration of Sect. 6.4.2/EN 1127-1 is taken into account with the permissible ambient temperatures. If the IPT-20/21-*D/4*, CPT-20/21-*D/4* are operated at temperatures higher than those specified in the above table, please make sure by means of appropriate measures that there is no danger of ignition from the hot surfaces. The maximum temperature on the electronics/housing should not exceed the values stated in the above table. The application conditions in areas without hazardous mixtures are specified in the manufacturer information.

Category 2G instrument (EPL Gb instrument), CPT-20/21 and IPT-20/21 with high temperature version

Temperature class	Ambient temperature on the electronics (Zone 1)		Product temperature range (sensor, zone 1)
	Housing lid without inspection window	Housing lid with inspection window	
T6	-60 ... +60 °C	-50 ... +60 °C	-50 ... +39 °C
T5	-60 ... +70 °C	-50 ... +70 °C	-50 ... +100 °C
T4	-60 ... +50 °C	-50 ... +50 °C	-50 ... +135 °C
T3, T2, T1	-60 ... +50 °C	-50 ... +50 °C	-50 ... +200 °C

Category 2G instrument (EPL Gb instrument), IPT-20/21 version with piezoresistive/strain gauge measuring cell, version without cooling element

Temperature class	Ambient temperature on the electronics (Zone 1)		Product temperature range (sensor, zone 1)
	Housing lid without inspection window	Housing lid with inspection window	
T6	-60 ... +60 °C	-50 ... +60 °C	-50 ... +39 °C
T5	-60 ... +70 °C	-50 ... +70 °C	-50 ... +85 °C
T4	-60 ... +40 °C	-50 ... +40 °C	-50 ... +105 °C
T4, T3, T2, T1	-60 ... +30 °C	-50 ... +30 °C	-50 ... +120 °C

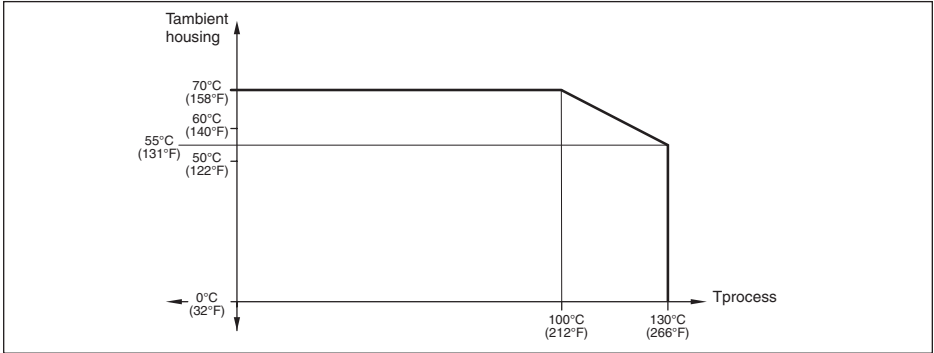
Category 2G instruments (EPL Gb instrument), CPT-20/21 and IPT-20/21 version with pi-zeoresistive/strain gauge measuring cell, version with cooling element

Temperature class	Ambient temperature on the electronics (Zone 1)		Product temperature range (sensor, zone 1)
	Housing lid without inspection window	Housing lid with inspection window	
T6	-60 ... +60 °C	-50 ... +60 °C	-50 ... +39 °C
T5	-60 ... +70 °C	-50 ... +70 °C	-50 ... +85 °C
T4	-60 ... +50 °C	-50 ... +50 °C	-50 ... +120 °C
T3, T2, T1	-60 ... +40 °C	-50 ... +40 °C	-50 ... +150 °C

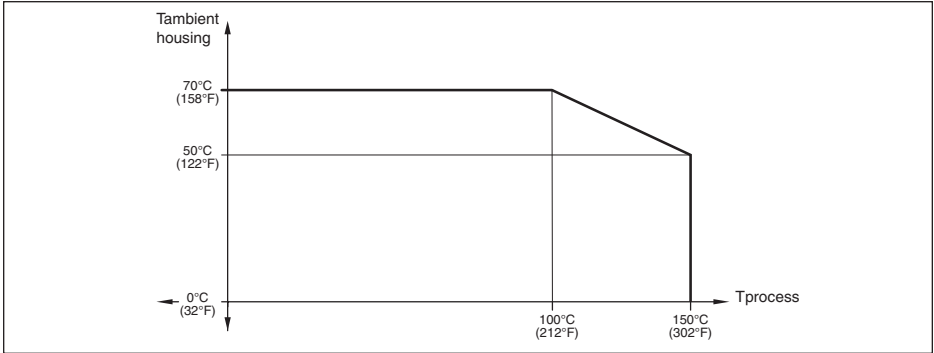
If the IPT-20/21-*D/4*, CPT-20/21-*D/4* are operated at temperatures higher than those specified in the above table, please make sure through appropriate measures that there is no danger of ignition from the hot surfaces. The max. permissible temperature on the electronics/housing should not exceed the values specified in the above table. The application conditions during operation with no explosive mixtures present are stated in the manufacturer information.

Temperature derating

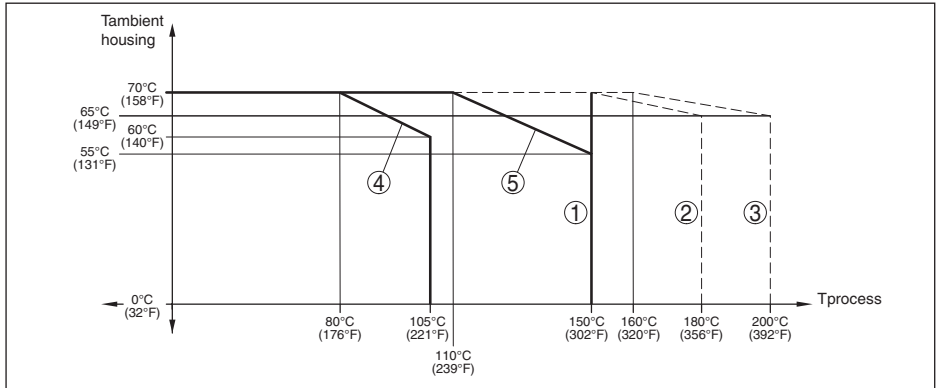
CPT-20/21, version process temperature +130 °C



CPT-20/21, version process temperature +150 °C



IPT-20/21



- 1 Version: METEC measuring cell, process temperature max. 150 °C
- 2 Version: METEC measuring cell, process temperature max. 180 °C
- 3 Version: METEC measuring cell, process temperature max. 200 °C
- 4 Version: Piezoresistive/strain gauge measuring cell, without cooling element
- 5 Version: Piezoresistive/strain gauge measuring cell, with cooling element

The temperature ranges for operation specified in the operating instruction must not be exceeded.

6 Protection against static electricity

The IPT-20/21-*D/4*, CPT-20/21-*D/4* in versions with electrostatically chargeable plastic parts, such as e.g. metal housing with inspection window, plastic-coated sensors, suspension cable/hose, distance tube or the connection cable of the separated version, have a caution label that points out the safety measures that must be taken with regard to electrostatic charges during operation.

**WARNING - POTENTIAL ELECTROSTATIC
CHARGING HAZARD - SEE INSTRUCTIONS**

Caution: Plastic parts! Danger of electrostatic charging!

- Avoid friction
- No dry cleaning
- Do not mount in areas with flowing, non-conductive products

7 Use of an overvoltage arrester

If necessary, a suitable overvoltage arrester can be connected in front of the IPT-20/21-*D/4*, CPT-20/21-*D/4*.

When used as category 1/2G instrument, as far as necessary analogue, a suitable overvoltage arrester must be connected in front as protection against voltage surges according to EN 60079-14.

8 Grounding

The "Ex db" connection compartment of IPT-20/21-*D/4*, CPT-20/21-*D/4* includes a safety barrier without galvanic separation. For safety reasons, the intrinsically safe circuits must be grounded.

The external/internal ground connection terminal on the housing of IPT-20/21-*D/4*, CPT-20/21-*D/4* must have a low impedance connection to the potential equalization.

9 Impact and friction sparks

When used as category 1/2G instruments, the IPT-20/21-*D/4*, CPT-20/21-*D/4* in light metal versions (e.g. aluminium/titanium) must be mounted in such a way that sparks from impact and friction between light metals and steel (except stainless steel, if the presence of rust particles can be excluded) cannot occur.

10 Material resistance

With applications requiring instruments of category 1/2G the IPT-20/21-*D/4*, CPT-20/21-*D/4* should only be used in media against which the wetted materials are sufficiently resistant.

11 Installation/construction

The IPT-20/21-*D/4*, CPT-20/21-*D/4* have to be mounted such that the sensor is effectively secured against touching the vessel wall, under consideration of other vessel installations and flow conditions in the vessel. This applies especially to suspension process transmitters and versions with distance tube lengths over 3 m.

12 Type of protection flameproof enclosure Ex "db"

The terminals for connecting to the operating voltage, i.e. signal circuits, are integrated in a compartment according to type of protection flameproof enclosure "db".

The thread gaps between housing and cover as well as between threaded fitting and container are flameproof joints.

The flameproof joints are not intended to be repaired.

The joint surfaces are not coated with paint or are not powder coated.

The "Ex db" connection compartment is provided with a M20 x 1.5 or ½-14 NPT thread for connection to a certified "Conduit" system or for mounting a "Ex db" cable entry certified according to EN 60079-1. Cable entries of simple construction may not be used. Please take note of section 13.1 and 13.2 of EN 60079-1. When connecting to a "Conduit" system, the associated sealing facility must be located directly on the "Ex db" connection compartment.

A certified "Ex db" cable gland can optionally be supplied with the delivery. It is suitable for insertion of armoured or unarmoured cables depending on the ordered version. The "Ex db" cable entry must be screwed tightly into the housing. The instructions in the document accompanying the respective cable entry must be observed. The supplied cable entry is suitable for the housing temperature range mentioned in the IPT-20/21-*D/4*, CPT-20/21-*D/4* specification. If a different cable entry is used, the separately certified cable entry or the temperature classes on the electronics determines the maximum permissible ambient temperature on the housing.

The factory-installed/attached screw plug or blind plug (depending on the type ordered) is part of the "Ex db" housing. If a screw plug type other than the factory-installed/attached screw plug or the one with article number 2.53817, 2.53818, 2.53821, 2.53822, 2.53823 oder 2.53825 is used, it must be suitable for the function and certified according to EN 60079-1.

Before opening the lid of a "Ex db" compartment or in case it is already open (e. g. during connection or service work), make sure that either the supply cable is completely voltage free or no explosive atmosphere is present.

When wiring the connection line to the "Ex db" connection compartment, it must be sufficiently secured against damage and in conformity with EN 60079-14.

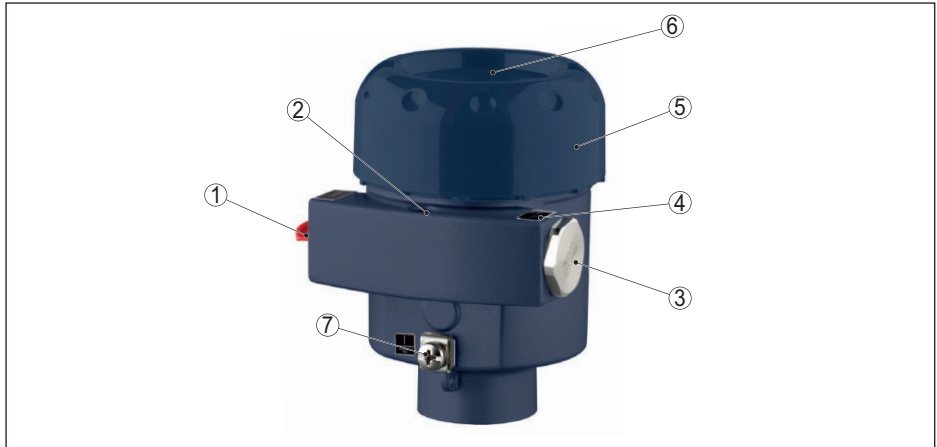
The connection cables, the cable entries and the closing screws or the pipeline sealing facilities must be suitable for the lowest ambient temperature.

The cover of the "Ex db" connection compartment must be screwed in completely before commissioning and secured by screwing out the lid locking screw all the way to the stop.

Unused openings must be sealed according to EN 60079-1 paragraph 11.9.

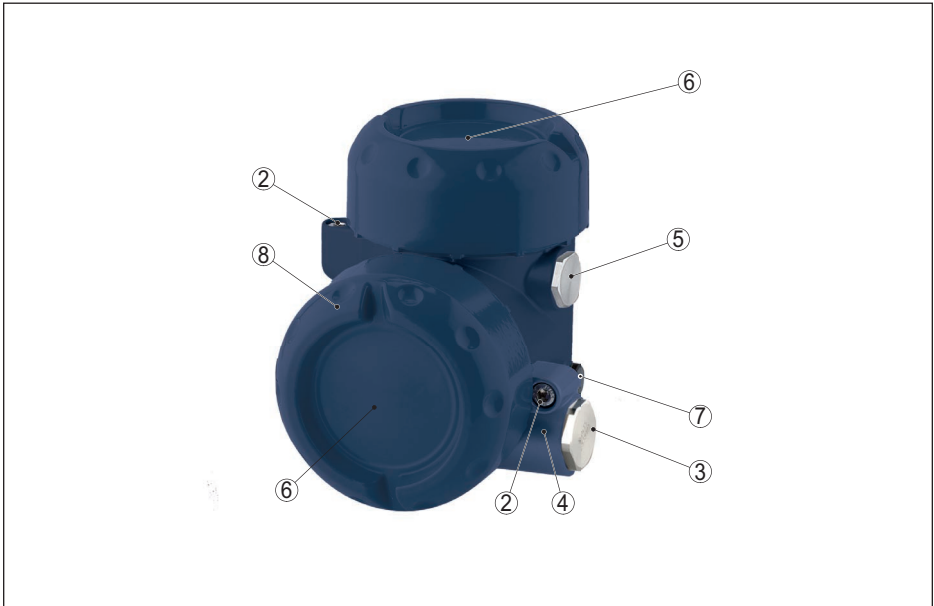
The cover of the "Ex db" connection compartment is provided with the warning label "Do not open when an explosive atmosphere is present".

Single chamber housing with "Ex db" connection compartment



- 1 Thread protection
- 2 Locking screw of the lid
- 3 Screw plug
- 4 Marking of the thread
- 5 "Ex db" connection compartment with electronics module
- 6 Optionally with inspection window
- 7 External ground terminal

Double chamber housing with two "Ex db" compartments



- 1 Thread protection
- 2 Locking screw of the lid
- 3 Screw plug
- 4 Marking of the thread
- 5 "Ex db" electronics compartment
- 6 Optionally with inspection window
- 7 External ground terminal
- 8 "Ex db" connection compartment



- 1 Thread protection
- 2 Locking screw of the lid
- 4 Marking of the thread

13 Installation of the IPT-20/21-*D/4*, CPT-20/21-*D/4* with separate housing

With the version with separate housing of the process transmitter IPT-20/21-*D/4*, CPT-20/21-*D/4*, the potential equalization must be provided in the complete range of the connection cable between electronics housing and transmitter housing.

14 Type and size of the threads for the "Ex db" cable entries

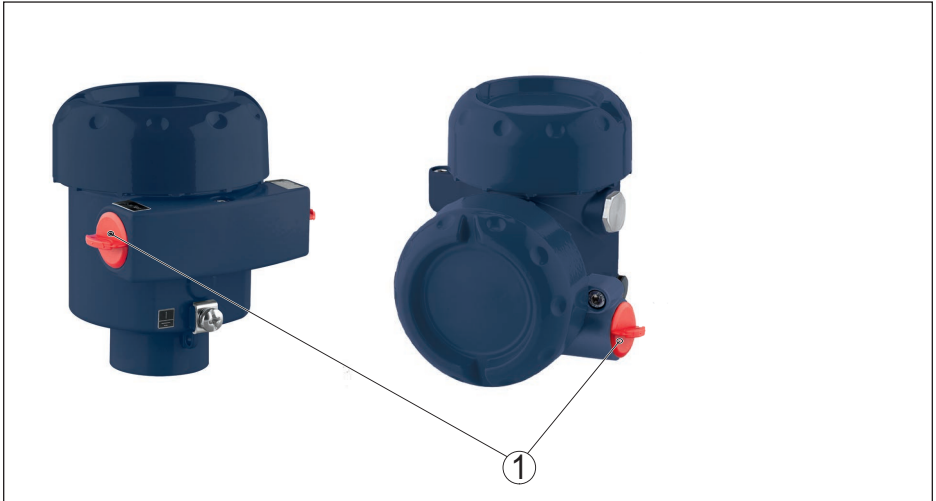
The "Ex db" connection compartment of IPT-20/21-*D/4*, CPT-20/21-*D/4* with cable entry type 1, 6 or D has cable entries M20 x 1.5.

The "Ex db" connection compartment of IPT-20/21-*D/4*, CPT-20/21-*D/4* with cable entry type 8, P or 7 has cable entries ½-14 NPT.

15 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-20/21-*D/4*, CPT-20/21-*D/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.

16 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
according to the valid data sheet PE 86.06, PE 86.07

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

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Klingenberg, 2024-03-20

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Kommanditgesellschaft: Sitz Klingenberg –
Amtsgericht Aschaffenburg HRA 1819

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 IIC T6...T1 Ga II 1/2D Ex ia IIC T6...T1 Ga/Gb II 2D Ex ia IIC T6...T1 Gb II 1/2D 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 60079-31:2014	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 IIC T6...T1 Ga II 1/3D Ex ia IIC T6...T1 Ga/Gb II 2D Ex ia IIC T6...T1 Gb II 1/2D 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 60079-1:2014 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 T6...T1 Gb II 1/2D Ex ia IIC T6...T1 Ga II 1/3D Ex ia IIC T6...T1 Ga/Gb II 2D Ex ia IIC T6...T1 Gb II 1/2D 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 60079-1:2014 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)

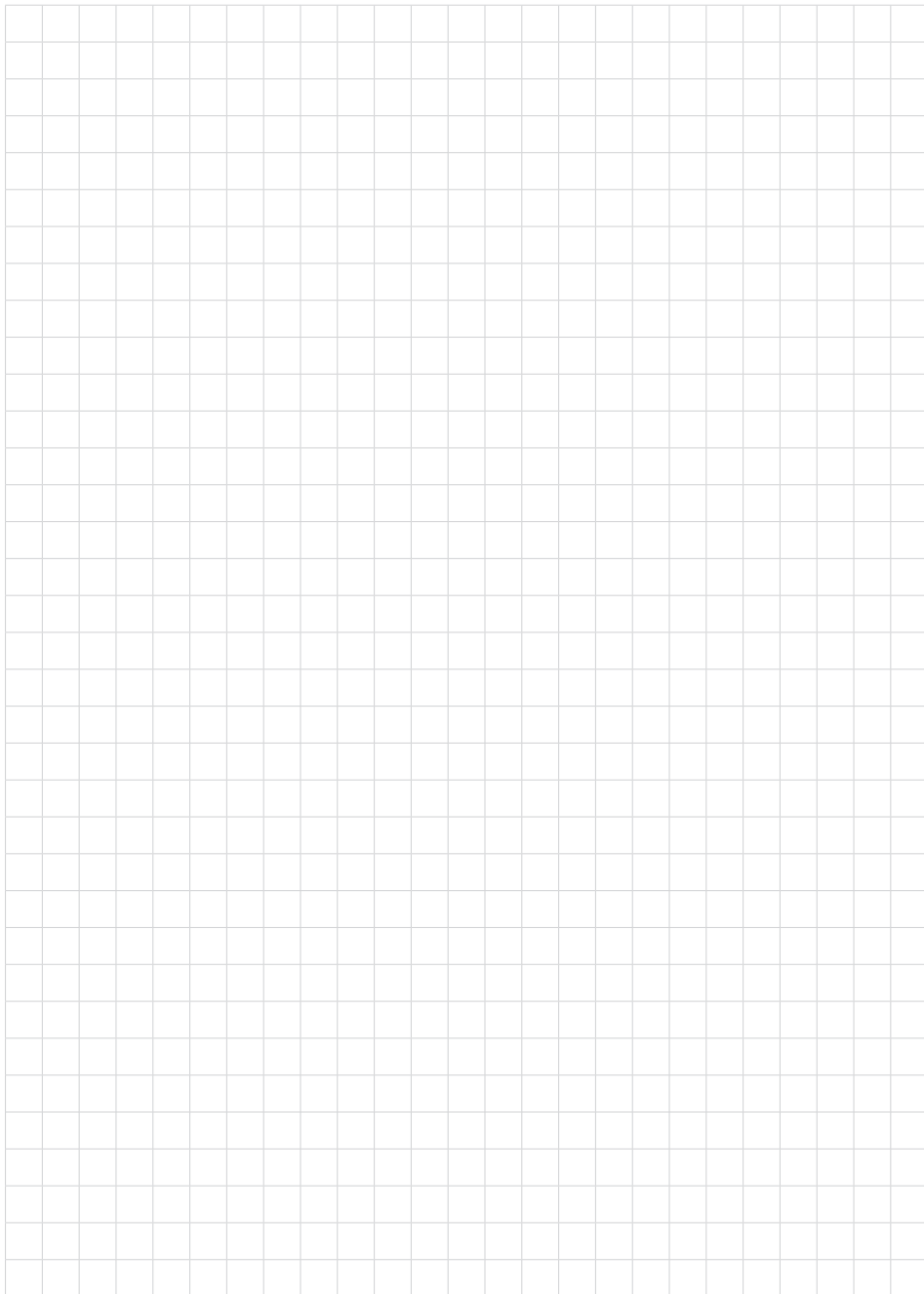
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