

Translation

(1) **EU-Type Examination Certificate**

TÜV NORD

- (2) Equipment and protective systems intended for use in potentially explosive atmospheres, **Directive 2014/34/EU**



(3) **Certificate Number** TÜV 17 ATEX 203304 X **issue:** 00

(4) for the product: Process transmitter
type IPT-2*-D/4*...-A/H/S/P/F/R/T*...S*Z*... and
type CPT-2*-D/4*...-A/H/S/P/F/R/T*...*

(5) of the manufacturer: WIKA Alexander Wiegand SE & Co. KG

(6) Address: Alexander-Wiegand-Straße 30
63911 Klingenberg
Germany

Order number: 8000473716
Date of issue: 2017-07-04

- (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.
- (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 203304
- (9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 60079-0:2012 + A11:2013 EN 60079-1:2014
EN 60079-26:2015

EN 60079-11:2012

except in respect of those requirements listed at item 18 of the schedule.

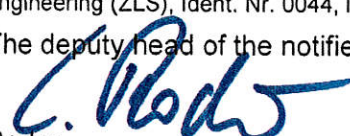
- (10) If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions for Use specified in the schedule to this certificate.
- (11) This EU-Type Examination Certificate relates only to the design, and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this equipment. These are not covered by this certificate.
- (12) The marking of the product shall include the following:



II 1/2 G Ex db ia IIC T6...T1 Ga/Gb or
II 2 G Ex db ia IIC T6...T1 Gb

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 deputy head of the notified body


Roder

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(13) SCHEDULE

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(15) Description of product

The Process transmitter type CPT-20/21-*D/4*... and IPT-20/21-*D/4*... are used for pressure and level measurement in hazardous areas.

The CPT-20/21-*D/4*...* and IPT-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 process transmitter type 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) are available.

Type code:

IPT-2-*D/4*-*****-A/H/S/P/F/R/T*-*****-***S*Z**-*-*-* and
CPT-2-*D/4*-*****-A/H/S/P/F/R/T*-*****-*****-*-*-*

Electrical data:

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)

Only to be connected to non-intrinsically safe circuit with following maximum values:

U = 9.6...35 V d.c
U_m = 253 V a.c

Indicating and adjustment circuit
(Terminals 5,6,7,8)

For connection to the circuit of corresponding external display and adjustment unit DI-PT-E in ignition protection type flameproof enclosure "db" 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)

Only to be connected to non-intrinsically safe circuit with following maximum values:

U = 9.6...35 V d.c
U_m = 253 V a.c

Indicating and adjustment circuit
(Terminals 5,6,7,8)

For connection to the circuit of corresponding external display and adjustment unit DI-PT-E in

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ignition protection type flameproof enclosure "db" 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 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)

Only to be connected to non-intrinsically safe circuit with following maximum values:

$$U = 9.6 \dots 32 \text{ V d.c}$$

$$U_m = 253 \text{ V a.c}$$

Indicating and adjustment circuit
(Terminals 5,6,7,8)

For connection to the circuit of corresponding external display and adjustment unit DI-PT-E in ignition protection type flameproof enclosure "db" 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)

Only to be connected to non-intrinsically safe circuit with following maximum values:

$$U = 9.6 \dots 32 \text{ V d.c}$$

$$U_m = 253 \text{ V a.c}$$

Indicating and adjustment circuit
(Terminals 5,6,7,8)

For connection to the circuit of corresponding external display and adjustment unit DI-PT-E in ignition protection type flameproof enclosure "db" 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 R oder 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

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 ignition protection type 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.

Thermal data:

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

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

EPL Ga/Gb instruments:

Temperatur class	Ambient temperature on the electronics (zone 1)	Product temperature range (sensor, zone 0)
T6	-50°C ... +60 °C	-20°C ... +23 °C
T5, T4, T3, T2, T1	-50°C ... +60 °C	-20°C ... +60 °C

For applications requiring instruments of category 1/2G the process pressure of the media must be between 0.8... 1.1 bar. If the IPT-20/21-*D/4*...., CPT-20/21-*D/4*... are operated at temperatures higher than those specified in the above table, 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.

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)
T6	-50 °C ... +60 °C	-50 °C ... +39 °C
T5	-50 °C ... +60 °C	-50 °C ... +100 °C
T4	-50 °C ... +50 °C	-50 °C ... +135 °C
T3, T2, T1	-50 °C ... +50 °C	-50 °C ... +200 °C

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EPL Gb instrument, IPT-20/21 version with standard process temperature:

Temperature class	Ambient temperature on the electronics (zone 1)	Product temperature range (sensor, zone 1)
T6	-50 °C ... +60 °C	-50 °C ... +39 °C
T5	-50 °C ... +60 °C	-50 °C ... +85 °C
T4	-50 °C ... +40 °C	-50 °C ... +105 °C
T3, T2, T1	-50 °C ... +30 °C	-50 °C ... +120 °C

EPL Gb instrument, IPT-20/21 version with extended process temperature:

Temperature class	Ambient temperature on the electronics (zone 1)	Product temperature range (sensor, zone 1)
T6	-50 °C ... +60 °C	-50 °C ... +39 °C
T5	-50 °C ... +60 °C	-50 °C ... +85 °C
T4	-50 °C ... +50 °C	-50 °C ... +120 °C
T3, T2, T1	-50 °C ... +40 °C	-50 °C ... +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, 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.

(16) Drawings and documents are listed in the ATEX Assessment Report No. 17 203 203304

(17) Specific Conditions for Use

- At the plastic parts of the process transmitter type CPT-20/21-*D/4*... and IPT-20/21-*D/4*... there is a danger of ignition by electrostatic discharge. Observe manual of the manufacturer and warning label.
- For EPL Ga/Gb applications, at the metallic parts of process transmitter type CPT-20/21-*D/4*... and IPT-20/21-*D/4*... made of light metal there is a danger of ignition by impact or friction. Observe manual of the manufacturer.
- For EPL Ga/Gb applications and at risks by pendulum or vibration the respective parts of the process transmitter type CPT-20/21-*D/4*... and IPT-20/21-*D/4*... have to be secured effectively against these dangers. Observe manual of the manufacturer.
- For EPL Ga/Gb applications of the process transmitter type CPT-20/21-*D/4*... and IPT-20/21-*D/4*... the medium tangent materials have to be resistant to the media. Observe manual of the manufacturer.
- For the execution with separate housing of the process transmitter type CPT-20/21-*D/4*... and IPT-20/21-*D/4*... potential equalization has to be exist in the complete course of the erection of the connecting cable.

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6. The flameproof housing of this equipment must be provided with cable entries and filler plugs resp. conduits which are certified according to EN 60079-0 and EN 60079-1. The connection cables, the cable entries and filler plugs resp. the conduits have to be suitable for the lowest ambient temperature.

- (18) Essential Health and Safety Requirements
No additional on

- End of Certificate -