

Safety Instructions

TA30A, TA30D, TA30H

ATEX: II 2G Ex db IIC Gb, II 2D Ex tb IIIC Db
IECEX: Ex db IIC Gb, Ex tb IIIC Db

Safety instructions for electrical apparatus in
explosion-hazardous areas



TA30A, TA30D, TA30H

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About this document



This document has been translated into several languages. Legally determined is solely the English source text.

The document translated into EU languages is available:

- In the download area of the Endress+Hauser website:
www.endress.com -> Downloads -> Manuals and Datasheets -> Type: Ex Safety Instruction (XA) -> Text Search: ...
- In the Device Viewer: www.endress.com -> Product tools -> Access device specific information -> Check device features



If not yet available, the document can be ordered.

Associated documentation

This document is an integral part of the following Operating Instructions:

Operating instructions: EA01116T

Supplementary documentation

Explosion-protection brochure: CP00021Z/11

The Explosion-protection brochure is available:

- In the download area of the Endress+Hauser website:
www.endress.com -> Downloads -> Brochures and Catalogs -> Text Search: CP00021Z
- On the CD for devices with CD-based documentation

**Manufacturer's
certificates****IECEX certificate**

Certificate number: IECEX KEM 08.0042 U

Affixing the certificate number certifies conformity with the following standards (depending on the device version)

- IEC 60079-0 : 2017
- IEC 60079-1 : 2014
- IEC 60079-31 : 2013

ATEX certificate

Certificate number: KEMA 08ATEX0145 U

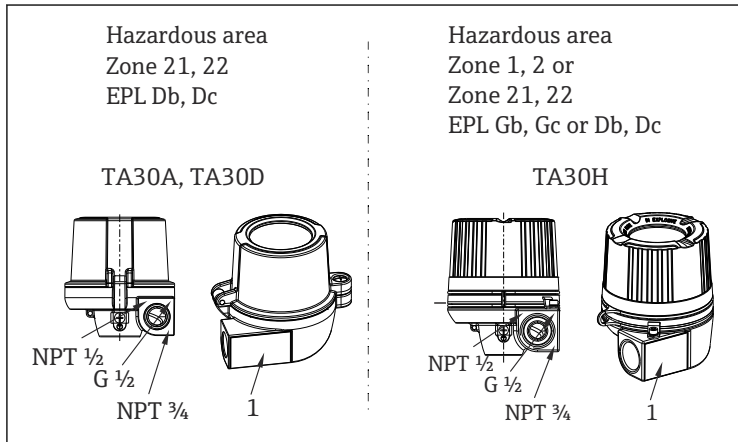
EU Declaration of Conformity

Declaration number: EC_00179

**Manufacturer
address**

Endress+Hauser Wetzler GmbH + Co. KG
Obere Wank 1
87484 Nesselwang, Germany

Safety instructions:



A0048955

- Identification markings for the cable gland thread type. No marking = M20x1.5
- 1 Place for nameplate

Safety instructions: Installation

- Comply with the installation and safety instructions in the Operating Instructions.
- Install the device according to the manufacturer's instructions and any other valid standards and regulations (e.g. EN/IEC 60079-14).
- The connection head must be connected to the potential matching line.
- Only the approved wire entries as specified in paragraph 10.3 of EN/IEC 60079-14, paragraph 16 of EN/IEC 60079-0, paragraph 13 of IEC 60079-1 must be used.
- For connection through a conduit entry approved for this purpose the associated sealing facility shall be mounted directly to the housing.
- Seal unused entry glands with approved sealing plugs that correspond to the type of protection.
- For operating the connection head at an ambient temperature under -20°C , appropriate cables and cable entries permitted for this application must be used.
- During operation, the cover must be screwed all the way in and the cover's safety catch must be fastened.
- Close unused entry glands with sealing plugs.
- Use for integral temperature sensors only approved sensors certified for category 1G or 2G marked not less than II1/2G Ex d IIC T6...T4 Ga/Gb or II2G Ex d IIC T6...T4 Gb for use in Zone 0 resp. Zone 1.
- Surface treatment of the cylindrical joint and threaded joint is not permitted.

- The cover has at least 9 engaged threads. The cylindrical process connection joint has a minimal length of 13.9 mm in which the maximum gap of 0.10 mm must be kept.
- The flameproof joints are not intended to be repaired.
- Built-in electronics shouldn't exceed measurements of 24.1 mm x 44 mm or 44 mm x 44 mm.
- The housing has been tested with 5 thread pitches in the cover.
- The temperature limit of the display glass is +100 °C, for the O rings +135 °C.

Safety notes: Dust ignition protection

- Comply with the installation and safety instructions in the Operating Instructions.
- Install the device according to the manufacturer's instructions and any other valid standards and regulations (e.g. EN/IEC 60079-14).
- Seal the cable entries tight with certified cable glands (min. IP6X) IP6X according to EN/IEC 60529.
- The connection head must be connected to the potential matching line.
- For ambient temperatures higher than +70 °C, use suitable heat-resisting cables or wires.
- Use for integral temperature sensors only approved sensors certified for category 1D or 2D marked not less than II1/2D Ex ta/Ex tb IIIC Da/Db or II2D Ex tb IIIC Db for use in Zone 20 or Zone 21.
- The temperature limit of the display glass is +100 °C, for the O rings +135 °C.
- Temperature range transmitter Ta = -50 to +130 °C.

Schedule of Limitations: Types TA30A, TA30D and TA30H

- The ambient temperature range shall be selected as shown in certificate or table in manual.
- Connection Heads provided with a non-conductive varnish shall be marked and provided with instructions to minimize the risk from electrostatic discharge.
- The IP grade at the opening for the sensor in the base of the connection head or in the adapter shall be ensured by suitable means.

Schedule of Limitations: Type TA30H only

- The flameproof joints are not intended to be repaired.
- The cover has 9 engaged threads but has been tested with 5 threads.
- Oil-filled circuit-breakers and contactors shall not be used.
- The connection heads are tested with dummy contents that represent typical round transmitters and terminal blocks with a main diameter of max. 45 mm. The use of enclosed apparatus of another shape and a larger main diameter is not covered by this certificate.

Temperature tables

Type	Type of protection		Temperature range
TA30H	II2G Ex db IIC Gb Ex db IIC Gb II2D Ex tb IIIC Db Ex tb IIIC Db	Without display	$-50\text{ °C} \leq T_a \leq +130\text{ °C}$
		With display	$-50\text{ °C} \leq T_a \leq +90\text{ °C}$
		With transmitter	$-50\text{ °C} \leq T_a \leq +90\text{ °C}$

Type	Type of protection		Temperature range
TA30A, TA30D	II2D Ex tb IIIC Db Ex tb IIIC Db	Without display	$-50\text{ °C} \leq T_a \leq +130\text{ °C}$
		With display	$-50\text{ °C} \leq T_a \leq +90\text{ °C}$
		With transmitter	$-50\text{ °C} \leq T_a \leq +90\text{ °C}$



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