Safety Instructions Liquipoint T FTW31, FTW32

II 2 G Ex ia IIC Gb II 2 G Ex ia [ia] IIC Gb







Liquipoint T FTW31, FTW32

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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:
	KA00204F/00, TI00375F/00
Supplementary	Explosion-protection brochure: CP00021Z/11
documentation	 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	EU Declaration of Conformity
certificates	Declaration Number: EG03009
	The EU Declaration of Conformity is available: In the download area of the Endress+Hauser website: www.endress.com -> Downloads -> Declaration -> Type: EU Declaration -> Product Code:
	EU type-examination certificate
	Certificate number: TÜV 03 ATEX 2069X
	List of applied standards: See EU Declaration of Conformity.

Manufacturer address	Endress+Hauser SE+ Hauptstraße 1 79689 Maulburg, Ge Address of the manu		namepla	ate.
Other standards	current version for p • IEC/EN 60079-14 installations desig • EN 1127-1: "Explo		eres - Pa ion" xplosion	n prevention and
Extended order code	The extended order code is indicated on the nameplate, which is affixed to the device in such a way that it is clearly visible. Additional information about the nameplate is provided in the associated Operating Instructions. Structure of the extended order code			
	FTW3x –	****	+	A*B*C*D*E*F*G*
	(Device type)	(Basic specifications)		(Optional specifications)
		Placeholder At this position, an option (number or letter) selected from the specification is displayed instead of the placeholders.		
	Basic specifications			
	features) are specifie positions depends or	e absolutely essential ed in the basic specific 1 the number of featu of a feature can consis	cations. res ava	The number of ilable.

Optional specifications

The optional specifications describe additional features for the device (optional features). The number of positions depends on the number of features available. The features have a 2-digit structure to aid identification (e.g. JA). The first digit (ID) stands for the feature group and consists of a number or a letter (e.g. J = Test, Certificate). The second digit constitutes the value that stands for the feature within the group (e.g. A = 3.1 material (wetted parts), inspection certificate).

More detailed information about the device is provided in the following tables. These tables describe the individual positions and IDs in the extended order code which are relevant to hazardous locations.

Extended order code: Liquipoint T

The following specifications reproduce an extract from the product structure and are used to assign:

- This documentation to the device (using the extended order code on the nameplate).
- The device options cited in the document.

Device type FTW31. FTW32

Basic specifications

Position 1 (Approval)		
Selected option		Description
FTW3x	D	ATEX II 2 G Ex ia IIC T5 Gb ¹⁾ ATEX II 2 G Ex ia [ia] IIC T6 Gb ²⁾ WHG, XA, leakage-detection, note safety instruction (XA) (electrostatic charging)

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1) Only in connection with Position 7 = 0
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2) Only in connection with Position 7 = 8

Position 7 (Electronics, Output)		
Selected option		Description
FTW3x	0	Separate instrumentation
	8	FEW58; NAMUR

Optional specifications

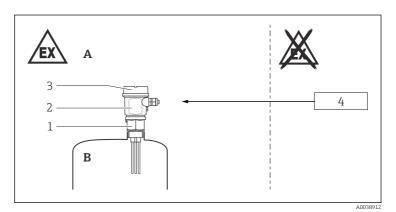
No options specific to hazardous locations are available.

Safety instructions: General	 The device is intended to be used in explosive atmospheres as defined in the scope of EN IEC 60079-0 or equivalent national standards. If no potentially explosive atmospheres are present or if additional protective measures have been taken: The device may be operated according to the manufacturer's specifications. Comply with the installation and safety instructions in the Operating Instructions. Staff must meet the following conditions for mounting, electrical installation, commissioning and maintenance of the device: Be suitably qualified for their role and the tasks they perform Be trained in explosion protection Be familiar with national regulations Install the device according to the manufacturer's instructions and national regulations. Do not operate the device outside the specified electrical, thermal and mechanical parameters. Avoid electrostatic charging: Of plastic surfaces (e.g. enclosure, sensor element, special varnishing, attached additional plates,) Of isolated capacities (e.g. isolated metallic plates)
Safety instructions: Special conditions	 Probes can be used in gases of Group IIC if avoiding electrostatic charging (e.g. through friction, cleaning, maintenance, strong medium flow). These probes are marked by the warning sign "Avoid Electrostatic Charge". Avoid electrostatic charging of the device (e.g. friction, cleaning, maintenance, strong medium flow). To avoid electrostatic charging: Do not rub surfaces with a dry cloth. In the event of additional or alternative special varnishing on the enclosure or other metal parts or for adhesive plates: Observe the danger of electrostatic charging and discharge.

Do not install in the vicinity of processes (≤ 0.5 m) generating strong electrostatic charges.

Safety instructions: Installation

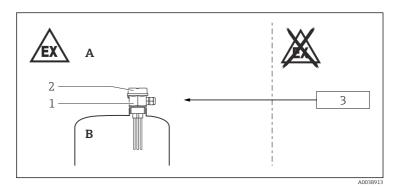
Basic specification, Position 7 = 8



• 1

- A Zone 1
- B Tank; Zone 1
- 1 FTW3x
- 2 Electronic insert
- 3 Enclosure
- 4 Associated intrinsically-safe power supply unit

Basic specification, Position 7 = 0



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- A Zone 1
- B Tank; Zone 1
- 1 FTW3x
- 2 Enclosure
- 3 Certified associated apparatus

- Observe the pertinent guidelines when interconnecting intrinsically safe circuits.
- To maintain the ingress protection of the enclosure IP66: Install the enclosure cover and cable glands correctly.

Basic specification, Position 7 = 8

Temperature tables

Temperature class Process temperature T _p (process)		Ambient temperature T _a (ambient)	
Т6	≤ 85 °C	$-40 \degree C \le T_a \le +60 \degree C$	

Basic specification, Position 7 = 0

Temperature class	Process temperature T _p (process)	Ambient temperature T _a (ambient)
T5	≤ 95 °C	$-40 \ ^\circ C \le T_a \le +95 \ ^\circ C$

Connection data

Basic specification, Position 7 = 8	Electrical data
NAMUR input	$\begin{array}{l} U_i = 16 \; V_{DC} \\ I_i = 52 \; mA \\ P_i = 242 \; mW \\ L_i = negligible \\ C_i = negligible \end{array}$
Sensor-probe output	$\begin{array}{l} U_{o} = 7.2 \; V_{DC} \\ I_{o} = 1.6 \; mA \\ P_{o} = 3 \; mW \\ L_{o} = 1 \; H \\ C_{o} = 11.8 \; \mu F \end{array}$



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