

Safety Instructions

Bluetooth® module VU121

Suitable for Liquiphant FTL51B, FTL62, FTL64

Certified according to:

KC: Ex ia, Ex db

EPL: Ga, Ga/Gb



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About this document

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

Associated documentation

This document is an integral part of the Safety Instructions as stated on the nameplate of the following devices:

Liquiphant FTL51B, FTL62, FTL64

Supplementary documentation

SD02389F/00

Manufacturer's certificates

The admissibility and applicability of the Bluetooth® module in the device is assessed by the respective testing authority that has approved the devices.

List of applied standards:

- IEC 60079-0:2017
- IEC 60079-1:2014
- IEC 60079-11:2011
- IEC 60079-26:2014

Manufacturer address

Endress+Hauser SE+Co. KG
Hauptstraße 1
79689 Maulburg, Germany

Address of the manufacturing plant: See nameplate.

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

FTL51B, FTL6x	-	*****	+	A*B*C*D*E*F*G*..
<i>(Device type)</i>		<i>(Basic specifications)</i>		<i>(Optional specifications)</i>

* = Placeholder

At this position, an option (number or letter) selected from the specification is displayed instead of the placeholders.

Basic specifications

The features that are absolutely essential for the device (mandatory features) are specified in the basic specifications. The number of positions depends on the number of features available. The selected option of a feature can consist of several positions.

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: Liquiphant



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

FTL51B, FTL62, FTL64

Basic specifications

Position 3, 4 (Output)			
Selected option		Description	
FTL51B FTL6x	A1	FEL61, 2-wire 19-253VAC + test button	
	A2	FEL62, 3-wire PNP 10-55VDC + test button	
	A3	FEL64DC, relay DPDT 9-20VDC	
	A4	FEL64, relay DPDT 19-253VAC/19-55VDC contact 253V/6A + test button	
	A7	FEL67, 2-wire PFM + test button	
	A8	FEL68, 2-wire NAMUR + test button	

Position 6 (Housing, Material)		
Selected option		Description
FTL51B FTL6x	A	Single compartment; plastic
	B	Single compartment; Alu, coated
	M	Dual compartment L-shape; Alu, coated

Optional specifications

ID Nx, Ox (Accessory Mounted)		
Selected option		Description
FTL51B FTL6x	NF ¹⁾	Bluetooth VU121, Labeling: VA13-02
	NG ^{2) 3)}	Prepared for Heartbeat Verification + Monitoring + Bluetooth VU121, Labeling: VA13-01

1) Only in connection with Position 3, 4 = A1-A4, A7, Position 6 = A, B, M

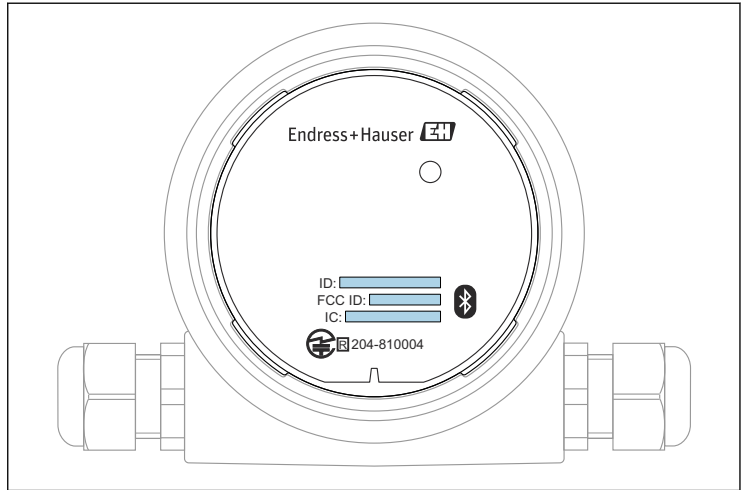
2) Only in connection with Position 3, 4 = A8, Position 6 = A, B, M

3) In connection with Position 3, 4 = A8: The temperature classes change to T4...T1

Safety instructions: General

- The devices are suitable for retrofitting with the Bluetooth® module if the specified *Basic specifications* are met.
- Comply with the installation and safety instructions of the associated Safety Instructions (XA) stated on the nameplate of the device.
- Observe the general notes of the Special Documentation SD02389F.

Safety instructions: Installation



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- After installing the Bluetooth® module: Pay attention to the correct installation of the device.
- Suitable for use in explosion hazardous areas.
- High cover with inspection window is required.

Basic specification, Position 3, 4 = A7

If the device is equipped with the Bluetooth® module, no battery is required or allowed.

Basic specification, Position 3, 4 = A8 (in connection with Ex i)

- If the device is equipped with the Bluetooth® module, a battery is required.
- Removal or replacement of the battery is only permitted in non-hazardous areas.

Only use one of the following battery types:

Manufacturer	Battery type
Saft	LS14500
Tadiran	SL-360/S
Varta	ER-AA / 7106
XENO ENERGY	ER14505 / XL-060F

Temperature tables

Type of protection	Permitted ambient temperature range
Ex ia <i>Basic specification, Position 3, 4 = A7</i>	$-40\text{ °C} \leq T_a \leq +70\text{ °C}$
Ex ia <i>Basic specification, Position 3, 4 = A8</i>	$-40\text{ °C} \leq T_a \leq +65\text{ °C}$
Ex db	$-40\text{ °C} \leq T_a \leq +70\text{ °C}$

Connection data

- When using the Bluetooth® module: No changes to the connection values.
- Observe the radio equipment rules.



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