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Safety Instructions
Bluetooth® module BT10

Suitable for Micropilot FMR5x, FMR6x and Levelflex FMP5x with 4-20 mA HART

Certified according to:
ATEX/IECEx: Ex ia, Ex ia/db, Ex ic, Ex ia/ic, Ex ec, Ex ia/ec, Ex db, Ex ta, Ex ta/tb
EPL: Ga, Ga/Gb, Gc, Ga/Gb/Gc, Da, Da/Db

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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 Safety Instructions as stated on the nameplate of the following devices:

- Micropilot FMR5x
- Micropilot FMR6x
- Levelflex FMP5x

Supplementary documentation

SD02252F/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.

EU Declaration of Conformity

Declaration Number:

Micropilot FMR5x
- EG12021
- EG12022
- EG12023
- EU_00954
- EU_00958

Micropilot FMR6x
- EC_00477
- EC_00478
- EC_00479

Levelflex FMP5x
- EG10013
- EG10009
- EG10010
- EC_00746
- EU_00955

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: ...

IEC Declaration of Conformity

List of applied standards:

- IEC 60079-0 : 2017
- IEC 60079-1 : 2014
- IEC 60079-7 : 2017
- IEC 60079-11 : 2011
- IEC 60079-26 : 2014
- IEC 60079-31 : 2013

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

FMR5x, FMR6x FMP5x	–	**********	+	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

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: Micropilot, Levelflex

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

FMR5x, FMR6x, FMP5x

Basic specifications

Position 3 (Power Supply, Output)		
Selected option		**Description**
FMR5x, FMR6x FMP5x	A	2-wire, 4-20 mA HART
	B	2-wire, 4-20 mA HART, switch output (PFS)
	C	2-wire, 4-20 mA HART, 4...20 mA
FMR5x FMP5x	K	4-wire, 90-253VAC, 4-20 mA HART
	L	4-wire, 10,4-48VDC, 4-20 mA HART

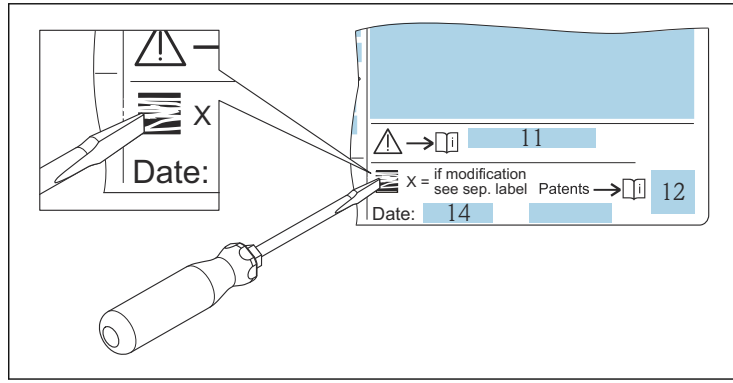
Position 4 (Display, Operation)		
Selected option		**Description**
FMR5x, FMR6x FMP5x	A	W/o, via communication
	C	SD02 4-line, push buttons + data backup function
	E	SD03 4-line, illum., touch control + data backup function

Optional specifications

No options specific to hazardous locations are available.

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 SD02252F.
- The attached EU Declaration of Conformity and the EU Declaration(s) of Conformity of the associated Safety Instructions (XA) of the device are valid.
- Mark the modification on the nameplate and document the change.



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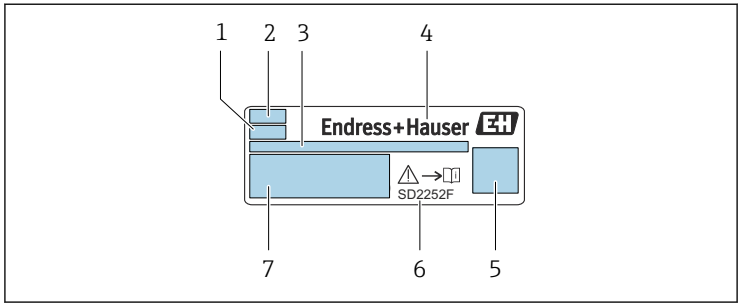
Safety instructions: Installation



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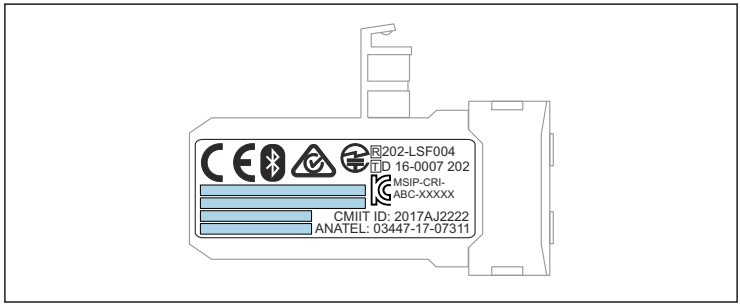
1 *Type designation*
2 *Transmission code*
3 *Address*
4 *Manufacturer identification*
5 *Data matrix code (includes serial number and material numbers)*
6 *Reference to documentation*
7 *Spare part / material / serial number*

- Marking to be checked: Transmission Code TRC[44] (code is relevant to hazardous locations).
- All other designations may be changed due to functional reason like Software, Radio Equipment Directive, ...



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1 *Additional marking (optional): Radio equipment approvals*

- With Bluetooth® module installed: Use of external hardware not allowed (e.g. external display, service interface).
- The intrinsically safe input power circuit of the Bluetooth® module is isolated from ground.
- After installing the Bluetooth® module: Pay attention to the correct installation of the device.

Connection data

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

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