Transmitter Series XM-800E-PVDF (Transmitter Series XT-800E-PVDF)



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Application Area: Resolution: Min. Mounting Length: Max. Mounting Length:

TLI

Industry, Chemical Industry 5 +/- 2 mm 400 mm 3000 mm

Depending on liquid level

equipped float actuates

some reed switches lo-

cated in the stem. The

or displacement a magnet

transmitter works according

to the principle of a voltage

divider. Output signals can

800E-PVDF) proportional to

be a voltage (XM-800E-

PVDF) or a current (XT-

the float displacement.

fed into computers.

Such signals can be pro-

cessed to drive analog or

digital displays, give optical or acoustical alarms, or be

Transmitters of the series XM-800E-PVDF (XT-800E-PVDF) provide reliable measurement and control for liquid levels. Additionally they can be used as position sensors for vertical displacements. The transmitters are built according to user-specific requirements. They have proved successful in a wide range of different industrial applications as well as in many special applications.

The PVDF series was specially developed for the foodstuffs industry, medical technology and other particularly exacting chemical applications. The transmitters are able to withstand acids, acidic compounds, bromines and pure media. They are not recommended for use with caustic soda or media having pH values >12.

Materials

Stem:	PVDF
Float:	PVDF
 Flange: 	PVDF
 Set collars: 	PTFE

• Junction boxes: ABS

No 3.1 certificate available

XM-800E-PVDF (XT-800E-PVDF)



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Mounting



Flange DN80/PN6 EN1092-1 • BF PVDF





Туре	• P75
Material	PVDF
Max. pressure	3bar
Media temperature	-30 °C100
Minimum density of the	0.77 g/cm ³
liquid	47 +/- 3 mm
Immersion depth at density =	
1 g/cm ³	

TLI



Electrical connection XM-800E-PVDF (3-wire)

• K6 Junction box (ABS)

TLI



- K11 Junction box (ABS)



Electrical diagram XM-800E-PVDF with voltage signal



Hint

Because of the internal wiring of the transmitter, the output voltage and not the transmitter resistance has to be measured when a test is taken.

Function

Operation of the transmitter in connection with signal processing units; In this mode of operation voltage supply is provided by the processing units. Operation of the transmitter in connection with other signal processing units: 10...24 V DC, stabilized.

Technical data

Media temperature Input signal Internal resistance Enclosure Depending on float 10...24 V DC 700 Ω ...2800 Ω IP 65

Electrical connection XT-800E-PVDF (2-wire)





Electrical diagram XT-800E-PVDF with current signal

Function

The mode of operation of the transmitter XT-800E-PVDF is basically the same as the mode of operation of the XM-800E. The XT-800E-PVDF provides an output signal of 4...20 mA (2-wire technique; current sink) not a voltage. The same technical data is valid for mounting elements, floats and dimensions as for the transmitter XM-800E. The electrical connections are made via the cable box which houses the signal conversion electronics.

Technical data

Enclosure

Ambient temperature Input signal Output signal Max. load Max. current 0 °C...60 °C 10...40 V DC 4...20 mA; current sink 100 Ω (10 V) 1.2 kΩ (40 V) 20 mA IP 65

Tli E/02.2017 Modifications reserved



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Order Data



Dimensions

TLI

- LO Mounting length (LO max. = 3000 mm)
- A Indication length (float displacement)
- C1 Upper deadline
- C2 Lower deadline min. 15 mm
- H Float height

LO = A + C1 + C2 + H

For versions with an upper set collar:

C1 = minimum measure* + set collar thickness (5mm) * minimum measure see below mounting elements

Typical order data XM-800E-PVDF-O-BF-P75-K6 (example)

- LO Mounting length 800 mm
- A Indication length 620 mm
- C1 Upper deadline 100 mm
- C2 Lower deadline 10 mm O Top mounting
- BF Flange DN80/PN6
- P75 Float H=70 mm