

Submersible Capacitive Transmitters

For water level measurements

The Series 46X combines the ceramic measuring cell for low pressure ranges with the μ P-electronics of the digital Series 30 pressure transmitters. The signal values of the pressure- and temperature sensors are determined by a polynomial compensation¹). The values can be shown and stored on a PC and can be reprogrammed. A reference tube integrated in the cable connects the referential chamber of the sensor with the ambient pressure.

Specifications

Options

Pressure Ranges (FS)*	30	100	300	mbar	
Overpressure	300	1000	1500	mbar	
* Intermediate ranges for the analog outpu (note that the error band will then increase			charge by spr	eading the standard ranges	
Туре	2-Wire)		3-Wire	
Supply (U _B) 46X	828	828 VDC		1328 VDC	
Supply (U _B) 46X-Ei	103	1030 VDC		1530 VDC	
Signal Output (scaleable)	420	mA		010 V	
Load (kΩ)	<(U _B -L	J _{Bmin.}) / 20	mA	≥ 100	
Error Band typ.**	± 0,1 9			± 0,2 %FS	
Error Band max.**	± 0,2 9	%FS		± 0,3 %FS	
** Within the compensated temperature ra	nge				
Stability		00 mbar	+01%	S FS ≤ 100 mbar: ± 0,1 m	bar
Stability	F3 ≤ 1	00 mbar:	± 0,1 /01		Jui
Operating Temperature		°C (icing no			bui
		°C (icing no			bui
Operating Temperature	080 105	°C (icing no 0 °C			
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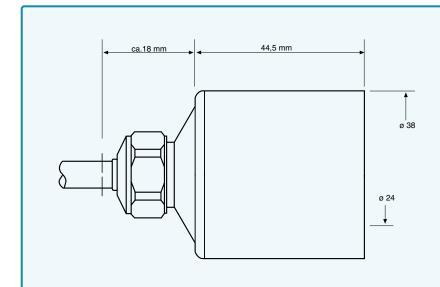
Series 46X Series 46X-Ei



This pressure transmitter is also available as an intrinsically safe version (Series 41X-Ei) and can be used as a partition wall device at the border of Zone 0 and Zone 1. Pressure transmitters in the 41X-Ei series may only be used in conjunction with proven intrinsically safe equipment.

Programmable, other versions

¹⁾ More information about the polynomial compensation and associated software you will find in the Series 41X datasheet.



Electrical Connections

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Ex ia IIC T4 Ga/Gb PTB 06 ATEX 2011 X

IECEx PTB 21.0018 X

	2-Wire	3-Wire			
Black	+VCC	+VCC			
White	OUT/GND	GND			
Red		+OUT			
Blue	RS 485 A				
Yellow	RS 485 B				

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