



SUBMERSIBLE CAPACITIVE TRANSMITTERS

FOR WATER LEVEL MEASUREMENTS

The Series 46 X 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 output are realizable with no surcharge by spreading the standard ranges (note that the error band will then increase proportionally) 						
Type	2-Wire			3-Wire		
Supply (U _B) 46 X	828	VDC		1328 VDC		
Supply (U _B) 46 X Ei	1030	1030 VDC		1530 VDC		
Signal Output (scaleable)	420	420 mA		010 V		
Load (kΩ)	<(U _B -L	$<(U_B - U_{Bmin}) / 20 \text{ mA}$		≥ 100		
Error Band typ.**	± 0,1 9	%FS		± 0,2 %FS		
Error Band max.**	± 0,2 %	± 0,2 %FS		± 0,3 %FS		

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Stability	FS ≥ 100 mbar: ± 0,1 %FS	FS ≤ 100 mbar: ± 0,1 mbar		
Operating Temperature	080 °C			
Compensated Range	1050 °C			
Electrical Connection	- Reference cable PE sheath Ø 5,8 - Absolute cable PUR double sheath Ø 4,7			
Materials Contact with Media	 Cable length: Standard 5 m Housing: Stainless steel (type AISI 316L) Diaphragm: Ceramic, gold plated Nitrile O-ring 			
Protection	IP 68			
Weight	≈ 400 g with 5 m cable			

This pressure transmitter is also available as intrinsically safe version (Series 46 X Ei). It is used in explosion exposed areas, where the categories 1 and 2 are required and must only be used in combination with certified intrinsically safe equipment!

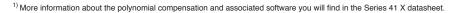
Programmable, other versions

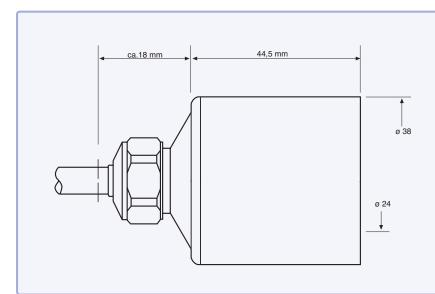
Series 46 X Series 46 X Ei











Electrical Connections

	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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Subject to alterations
Companies approved to ISO 9001

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