



Submersible Capacitive TransmittersFor 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 out (note that the error band will then increa			charge by spr	eading the standard ranges	
Туре	2-Wire			3-Wire	
Supply (U _B) 46X	828	VDC		1328 VDC	
Supply (U _B) 46X-Ei	1030) VDC		1530 VDC	
Signal Output (scaleable)	420	420 mA		010 V	
Load (kΩ)	$<(U_B-U_{Bmin}) / 20 \text{ mA}$		mA	≥ 100	
Error Band typ.**	± 0,1 9	± 0,1 %FS		± 0,2 %FS	
Error Band max.**	± 0,2 %	± 0,2 %FS		± 0,3 %FS	

within the compensated temperature range					
Stability	FS ≥ 100 mbar: ± 0,1 %FS	FS ≤ 100 mbar: ± 0,1 mbar			
Operating Temperature Compensated Range	080 °C (icing not permitted) 1050 °C				
Electrical Connection	 Reference cable PE sheath ø 5,8 Absolute cable PUR double sheath ø 4,7 Cable length: Standard 5 m 				
Materials Contact with Media	 Housing: Stainless steel (type AISI 316L) Diaphragm: Ceramic, gold plated Nitrile O-ring 				
Protection	IP68				
Weight	≈ 400 g with 5 m cable				

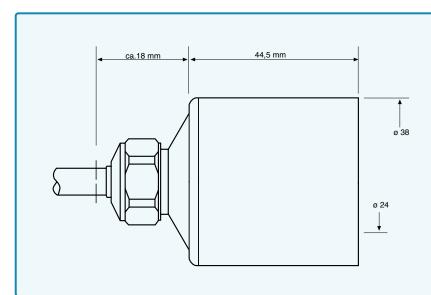
This pressure transmitter is also available as an intrinsically safe version (Series 41X-Ei) and can be used as a partition wall device at the border of Zone 0 and Zone 1. Pressure transmitters in the 41X-Ei series may only be used in conjunction with proven intrinsically safe equipment.

Programmable, other versions









Electrical Connections

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

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