



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 out (note that the error band will then increa			charge by spr	eading the standard ranges	
Туре	2-Wire			3-Wire	
Supply (U _B) 46 X	828	VDC		1328 VDC	
Supply (U _B) 46 X Ei	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	± 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	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!

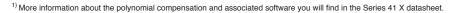
Programmable, other versions

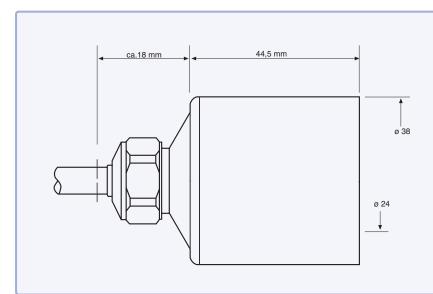
Series 46 X Series 46 X Ei











Electrical Connections

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

KELLER AG für Druckmesstechnik

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Edition 08/2019

Subject to alterations
Companies approved to ISO 9001

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