

KELLER

SUBMERSIBLE CAPACITIVE TRANSMITTERS

FOR WATER LEVEL MEASUREMENTS

Series 46 X Series 46 X Ei

The Series 46 X combines the ceramic measuring cell for low pressure ranges with the μP electronics of the digital Series 30 pressure transmitters. The signal values of the pressureand 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

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	± 0,1 %FS		± 0,2 %FS		
Error Band max.**	± 0,2 °	± 0,2 %FS		± 0,3 %FS		

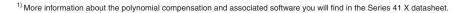
** Within the compensated temperature range					
Stability	FS ≥ 100 mbar: ± 0,1 %FS	FS ≤ 100 mbar: ± 0,1 mbar			
Operating Temperature Compensated Range	080 °C 1050 °C				
Electrical Connection	 Reference cable PE sheath Ø 5,8 Absolute cable PUR double sheath Ø 4,7 Cable length: Standard 5 m 				
Materials 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				
Options	Programmable, other versions				

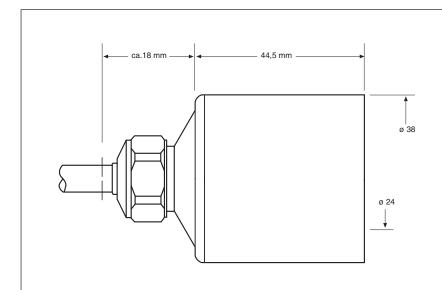
This pressure transmitter is also available as intrinsically safe version (Series 46 X Ei). It is used in explosion exposed areas, where the categories 1 and 2 are required and must only be used in combination with certified intrinsically safe equipment!











Electrical Connections

2-Wire	3-Wire				
+VCC	+VCC				
OUT/GND	GND				
	+OUT				
RS 485 A					
RS 485 B					
	+VCC OUT/GND				

05/2010

KELLER AG für Druckmesstechnik St. Gallerstrasse 119 CH-8404 Winterthur Tel. +41 (0)52 - 235 25 25 Fax +41 (0)52 - 235 25 00 KELLER Ges. für Druckmesstechnik mbH Schwarzwaldstrasse 17 D-79798 Jestetten Tel. +49 (0)7745 - 9214 - 0 Fax +49 (0)7745 - 9214 - 60

Companies approved to ISO 9001 www.keller-druck.com