



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

Pressure Ranges (FS)*	30	100	300	mbar	
Overpressure	300	1000	1500	mbar	
* Intermediate ranges for the analog outp (note that the error band will then increase			charge by spr	reading the standard ranges	
Type	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 mA			010 V	
Load (kΩ)	$<(U_B - U_{Bmin}) / 20 \text{ mA}$			≥ 100	
Error Band typ.**	± 0,1 %FS			± 0,2 %FS	
Error Band max.**	± 0,2 %FS			±0,3 %FS	
** Within the compensated temperature i	range				

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 Absolute cable PUR double 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		

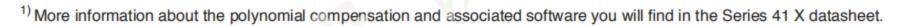
This pressure transmitter is also available as intrinsically safe version (Series 46 X Ei). It is used in explosion exposed areas, where the categories 1 and 2 are required and must only be used in combination with certified intrinsically safe equipment!

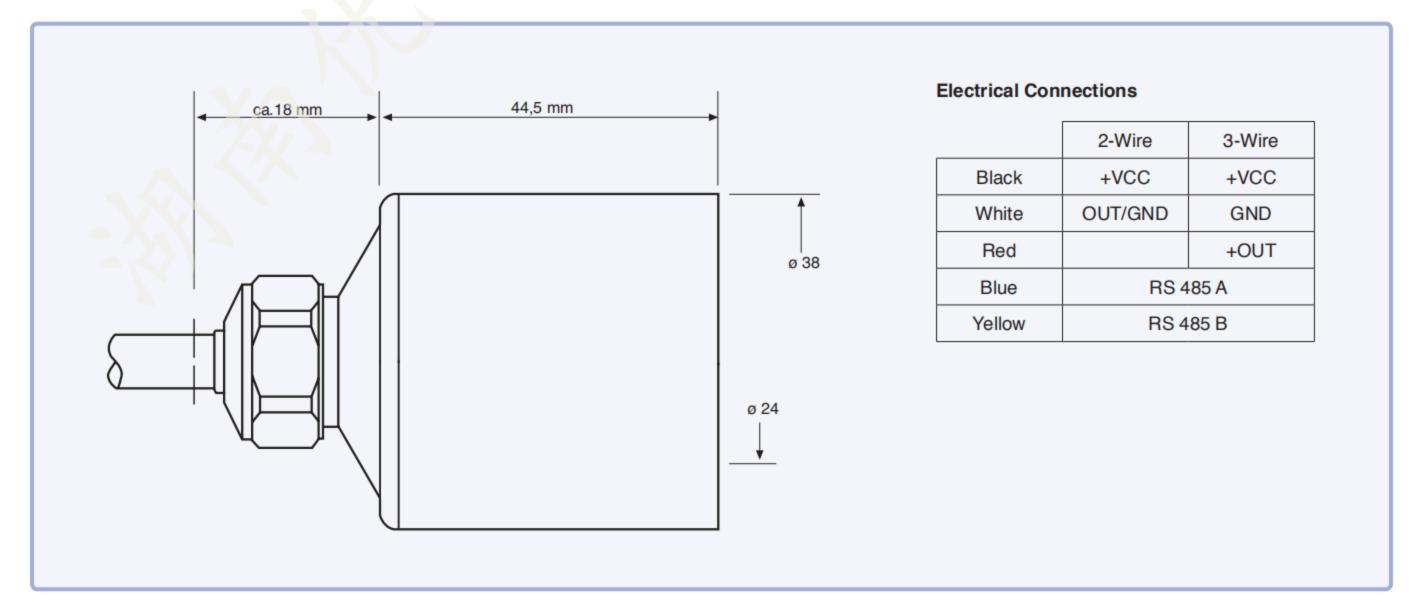
Series 46 X



(€x) II 1/2 G Ex ia IIC T4 PTB 06 ATEX 2011







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Series 46 X Ei