



## **Submersible Capacitive Transmitters**

## For water level measurements

The Series 46X combines the ceramic measuring cell for low pressure ranges with the  $\mu P$ -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**

Weight

Options

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 increas		th no surc	harge by spre	eading the standard ranges
Туре	2-Wire	828	VDC	3-Wire 13
Supply (UB) 46X	1030	VDC 4	20	28 VDC
Supply (UB) 46X-Ei	mA			1530 VDC
Signal Output (scaleable)	<(UB-UE	3 min.)	/ 20	010 V ≥
Load (kΩ)	`	,	, _0	100 ± 0,2
Error Band typ.**	mA ± 0,1 %F	-0		%FS ± 0,3
Error Band max.**	± 0,1 %F ± 0.2 %F			%FS

Stability	Operating	FS ≥ 100 mbar: ± 0,1 %FS	FS ≤ 100 mbar: ± 0,1 mbar			
Temperature Compensated R	ange	$080$ $^{\circ}$ C (icing not permitted) $1050$ $^{\circ}$ C				
Electrical Connection		- Reference cable PE sheath ø 5,8				
Materials Contac	ct with Media	<ul> <li>Cable length: Standard 5 m</li> <li>Housing: Stainless steel (type AISI 316L)</li> <li>Diaphragm: Ceramic, gold plated</li> <li>Nitrile O-ring</li> </ul>				
Protection		IP68 ≈ 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.

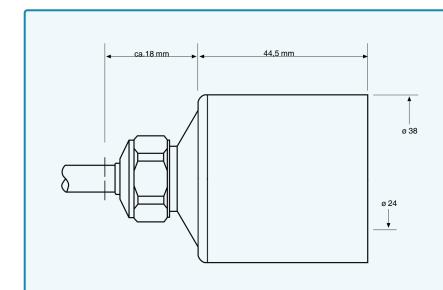
Programmable, other versions











## **Electrical Connections**

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

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