

## 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  $\mu$ P-electronics of the digital Series 30 pressure transmitters. The signal values of the pressure- and temperature sensors are determined by a polynomial compensation<sup>1)</sup>. 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) 46 X	8...28 VDC	13...28 VDC
Supply (U) 46 X Ei	10...30 VDC	15...30 VDC
Signal Output (scaleable)	4...20 mA	0...10 V
Load ( $\Omega$ )	$< (U - 8 V) / 0,02 A$	$> 5 K$
Stability	FS $\geq 100$ mbar: $\pm 0,1$ %FS	FS $\leq 100$ mbar: $\pm 0,1$ mbar
Operating Temperature	0...80 °C	
Compensated Range	10...50 °C	
Error Band**	$\pm 0,1$ %FS typ.	$\pm 0,2$ %FS max.

\*\* Analog output within the compensated temperature range

Cable Type	$\varnothing$ 5,8 mm, polyurethane, integrated reference tube
Cable Length	5 metres standard
Materials Contact with Media	- Housing: Stainless steel (type AISI 316L) - Diaphragm: Ceramic, gold plated - Neoprene O-ring
Protection	IP 68
Weight	$\approx$ 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.



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

### Electrical Connections

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