



## SUBMERSIBLE CAPACITIVE TRANSMITTERS

## FOR WATER LEVEL MEASUREMENTS

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**

Error Band max.\*\*

Weight

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 <sub>B</sub> ) 46 X	828	828 VDC		1328 VDC	
Supply (U <sub>B</sub> ) 46 X Ei	103	1030 VDC		1530 VDC	
Signal Output (scaleable)	420	mA		010 V	
Load (kΩ)	<(U <sub>B</sub> -U	J <sub>Bmin.</sub> ) / 20	mA	≥ 100	
Error Band tvp.**	+019	%FS		+ 0.2 %FS	

± 0,2 %FS

<sup>\*\*</sup> 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	<ul> <li>Reference cable PE sheath Ø 5,8</li> <li>Absolute cable PUR double sheath Ø 4,7</li> <li>Cable length: Standard 5 m</li> </ul>				
Materials Contact with Media	<ul> <li>Housing: Stainless steel (type AISI 316L)</li> <li>Diaphragm: Ceramic, gold plated</li> <li>Nitrile O-ring</li> </ul>				
Protection	IP 68				

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!

≈ 400 g with 5 m cable

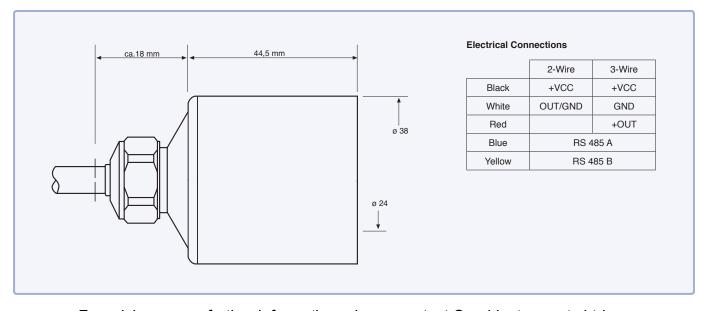
Programmable, other versions











± 0,3 %FS

For pricing or any further information, please contact Omni Instruments Ltd.



**Contact Details:** 

Tel: +44 1382 443000 Fax: +44 1382 453197 Email: info@omni.uk.com Mailing Address:

Unit 1, 14 Nobel Road, Dundee, DD2 4UH, UK.

Website: www.omniinstruments.co.uk

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