## **CAPACITIVE PRESSURE TRANSMITTER TYPE 41X/41XEI**

The Series 41 X combines the ceramic measurement cell for low pressure ranges with the  $\mu P$  electronics of the digital Series 30 transmitter. The pressure values from the signals of the pressure and temperature sensors are determined by polynomial compensation (see reverse). The values can be displayed and stored on a PC via an RS485 interface and programming can also be carried out.

The transmitters are calibrated to the base range. The PROG30 software permits programming of the analog output signal in each section of the range within the base range (e.g. range 100 mbar. Output 4...20 mA for 20...60 mbar).

With KELLER RS converters K-100 Series, up to 128 transmitters can be hooked together into a bus system and read by means of a PC or laptop. READ30 software allows the current pressure of each transmitter to be read or the pressure activity of several transmitters to be recorded or stored whilst "on line".

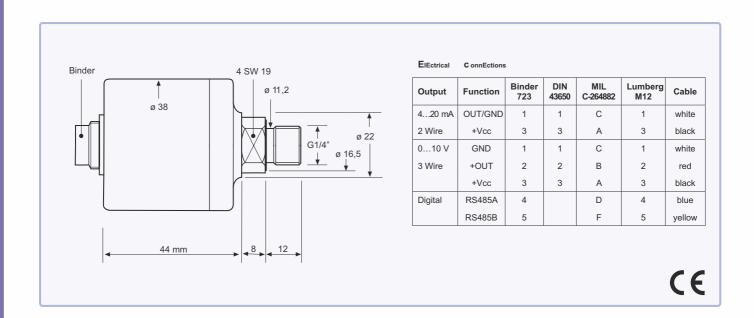


This pressure transmitter is also available as intrinsically safe version (Series 41Xei). It is used in explosion exposed areas, where the categories 1 and 2 are required.



\*by splitting the 10 mbar range





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## **Specifications**

	Standard FS Pressure Ranges				
PR-41 X (relative) PD-41 X (diff.)	30	100	300	mbar	
Overpressure	300	1000	1500	mbar	
Neg. Overpressure	30	100	300	mbar	
2-Wire 3-Wire					
Supply (U <sub>B</sub> ) 41 X	828 VDC		1328 VDC		
Supply (U <sub>B</sub> ) 41 X Ei	1030 VDC		1530 VDC		
Analog Output (scaleable)	420 mA		010 V		
Load (kΩ)	<(U <sub>B</sub> -I	U <sub>B min.</sub> ) / 2	20 mA	≥ 100	
Error Band typ.*	± 0,1	%FS		± 0,2	%FS
Error Band max.*	± 0,2 %FS		± 0,3 %FS		
* Within the compensated temperature range					
Stability	FS ≥ 100 mbar: ± 0,1 %FS F\$ 100 mbar: ± 0,1 mbar				



Stability	FS ≥ 100 mbar: ± 0,1 %FS	F\$ 100 mbar: ± 0,1 mbar
Operating Temperature	-2080 °C	
Compensated Range	1050 °C	