

# INTELLIGENT TRANSMITTER WITH DIGITAL INDICATION

# LEO 3

BUS-CAPABLE / PROGRAMMABLE 4...20 mA OUTPUT

LEO 3 is a micro-processor based transmitter with digital double-display for pressure (top display) and for the output signal (bottom display). The display is powered from the 4...20 mA current loop.

The following functions can be executed with the front keys:

- MAX/MIN** Activating the right key brings the Max.- and Min.-values to the lower display. After 5 seconds, the analog signal is indicated again.
- RESET** With RESET, the Max.- and Min.-values are set to actual.
- ZERO SET** The zero is set to the applied pressure.
- ZERO RES** Restores the instrument back to factory settings.
- UNITS** The pressure values can be displayed in the following units:  
bar, mbar/ hPa, kPa, MPa, PSI, kp/cm<sup>2</sup>.

### PROGRAMMING THE ANALOG OUTPUT VIA THE FRONT KEYS

- OUTP SETT** This sub-menu is used to configure the analog output within the compensated range. The functions can only be accessed by entering a code.
- ZERO** Executing ZERO when pressure is applied sets the analog output to 4 mA.
- FS** Executing FS when pressure is applied sets the analog output to 20 mA.
- FACT SETT** The analog output is set back to factory settings.

### PROGRAMMING BY PC

The communication with the BUS-capable instrument takes place with the desktop READ30/PROG30 software and a interface converter (K104B, K107,...) via the RS 485 interface, allowing to read out the pressure values and the instrument characteristics. The analog output can be programmed without applying pressure to the instrument.

- Optional accessories: - Protective rubber covering  
- Carrying bag



SPECIFICATIONS		Plug Assignment	
Pressure Ranges, Resolution:		<u>Range</u>	<u>Resolution</u>
		PAA 0...4 bar abs.	1 mbar
		PAA 0...30 bar abs.	10 mbar
		PA 0...300 bar	100 mbar
		PA 0...700 bar	200 mbar
		PA 0...1000 bar	200 mbar
Accuracy RT (room temperature) *	< 0,1 %FS		
Total Error Band (0...50 °C)	< 0,2 %FS		
Storage Temperature	-10...60 °C		
Compensated Temperature Range	0...50 °C		
Supply	8...28 VDC		
Output	4...20 mA (2 wire) / RS 485		
Measuring Rate	up to 90 times/sec.		
Display Rate	2 times/sec.		
Pressure Connection	G1/4"		
Electrical Connection	Binder 723 (back entry)		
Protection, CEI 529	IP65		
Diameter x Height x Depth	76 x 125 x 50 mm		
Weight	≈ 210 g		
* Including linearity, repeatability and hysteresis.			
		<b>Output</b>	<b>Function</b>
		4...20 mA	OUT /GND
		(2 wire)	+Vcc
		Interface	RS485A
			RS485B
			<b>Binder 723</b>
			1
			3
			4
			5