+KELLER

INTELLIGENT TRANSMITTER WITH DIGITAL INDICATION   LEO 3

RS485-BUS-INTERFACE / SCALABLE 4…20 mA OUTPUT

LEO 3 is a micro-processor based transmitter with digital double-display for pressure (top of display) and for the analog 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.

RESET   With RESET, the Max.- and Min.-values are set to actual.

ZERO SET   The zero is set to the applied pressure.

ZERO RES   Factory zero setting will be restored.

UNITS   The pressure values can be displayed in the following units:
           bar, mbar/hPa, kPa, MPa, PSI, kp/cm^2.

Programming the analog output via the front keys

OUTP SETT In this sub-menu the analog output can be configured within the pressure range.

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 signal is set back to factory settings.

Scope of delivery

Cable plug for Binder 723
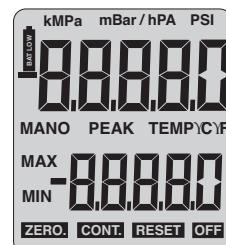
Optional accessories

Protective rubber covering, K114-B interface converter

PC-Software

Pressure and temperature readings can be displayed and recorded on PC or Laptop with help of the software ControlCenterSeries30 (CCS30) and a seriel interface cable. The software also enables configuration of the analog output scaling and zero point settings. The Keller-Bus protocol and programming examples in various programming languages are available. This allows very quick and easy implementation in customer software applications. Up to 128 devices can be connected together into a KELLER Bus-system.

Display segments LEO 3

SPECIFICATIONS

Pressure Ranges rel.								
PR	-1…3	-1…10	-1…30					bar
Pressure Ranges abs.								
PA			0…30	0…100	0…300	0…700	0…1000	bar
PAA	0…4	0…10	0…30					bar
Overpressure	8	20	60	200	600	1100	1100	bar
Resolution Pressure Display (LCD)	1	2	10	20	100	200	200	mbar
Resolution Pressure via Interface	0,0125 %FS							

Accuracy RT (room temperature) **	≤ 0,1 %FS
Total Error Band (0…50 °C)	≤ 0,2 %FS
Storage Temperature / Operating temperature	-10…60 °C / 0…50 °C
Compensated Temperature Range *	0…50 °C
Supply	8…28 VDC
Output	4…20 mA (2 wire) / RS 485
Interface	RS 485 (KELLER-Bus)
Measuring Rate	up to 90 times/sec.
Display Rate	2 times/sec.
Pressure Connection *	G1/4"
Electrical Connection *	Binder 723 (back entry)
Protection	IP65
Diameter x Height x Depth / Weight	76 x 125 x 50 mm / ≈ 210 g
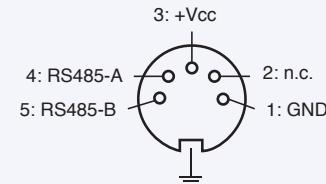
*Options: others Pressure Ranges, Temperature Ranges, Pressure Connections, Electrical Connections **Includes Linearity + Repeatability + Hysteresis

Pin assignment

Output	Function	Binder 723
4…20 mA	OUT /GND	1
(2 wire)	+Vcc	3
Interface	RS485A	4
	RS485B	5
⏚	Shielding	Housing

3: +Vcc
4: RS485-A
2: n.c.
5: RS485-B
1: GND

CE