KELLER

Low Range Pressure Transmitters

Series 41

Absolute, Gauge and Differential Pressure References

The capsule in this transmitter is a KAVLICO capacitive ceramic pressure element, proven in millions of automotive applications, and notable for its excellent long term reliability and stability. It is enclosed in a sealed stainless steel housing with the diaphragm protected by a gold layer. A neoprene O-ring seals the sensing diaphragm to the housing. The transmitter circuit is based on the KELLER "Progres" ASIC, and can be re-programmed by the user before or after installation (programmable version only).

The reference media of the gauge and differential transmitters must be dry air only. If the reference is likely to be damp or humid, KELLER recommends the use of a purpose built cartridge filled with silica gel which is fitted at the end of the reference tube of the differential transmitter.

Specifications

Pressure Ranges (FS):								
Version PR-41, gauge	10	20	50	100	200	400	1000	mbar
Version PD-41, differential	10	20	50	100	200	400	1000	mbar
Version PAA-41, absolute				100	400	1000	3000	mbar
Overpressure	10 x FS for < 200 mbar, 5 x FS for > 200 mbar							
Negative Overpressure	3 x FS							

Type	2-Wire	3-Wire	3-Wire
Supply	8…28 VDC	8…28 VDC	13…28 VDC
Signal Output	4…20 mA	0…20 mA	0…10 V
Load (Ω)	< (U-8V)/0,02A	< (U-5V)/0,02A	> 5K

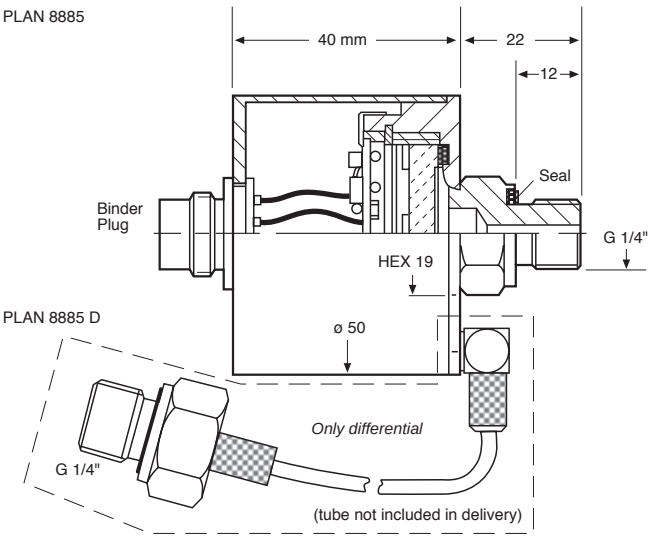
Linearity	0,2% FS (opt. 0,1% FS)
Hysteresis and Repeatability	0,03% FS
Stability	0,1% FS typ.

Operating Temperature	-20…80°C	
Compensated Range	0…50°C	
- T.C. of Zero	0,015% FS/°C typ.	0,02% FS/°C max.
- T.C. of Sensitivity	0,01%/°C typ.	0,02%/°C max.

Pressure Connection	G1/4" male, viton flat seal
Electrical Connection	Binder Series 680; 8-pin (supplied)
Materials in Contact with Media	Stainless steel (type AISI 316L), neoprene O-ring, gold
Media	Gas/liquids. PD-reference: Non-aggressive, dry gases
Protection / Weight	IP 40 / ≈ 330 gramme
Options	Programmable. Silica gel capsule. Protection IP 67. Other pressure ranges.

CE

PLAN 8885



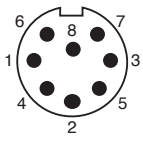
Electrical Connections

	4…20 mA	0…20 mA	0…10 V
+Vcc	4	4	4
+OUT		6	6
GND	8	8	8

Programmable Options

SIO	1	1	1
V. PROG	2	2	2
DATA	3	3	3
WRITE	5	5	5
CLOCK	7	7	7

Schematic of Plug



Subject to alterations

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