

KELLER

PIEZORESISTIVE PRESSURE TRANSDUCERS

SERIES 11

ABSOLUTE- AND GAUGE PRESSURE

The KELLER Series 10 sensor is mounted with the compensation resistors in a stainless steel housing. The sensor floats on an O-ring seal and is therefore free of any housing stresses. It is particularly suited in connection with μ P-based signal processing. Transducers can be ordered with the coefficients of a mathematical model ready for integration with a μ P-based system. Error Bands of 0,1%...0,01 %FS are achievable, depending on the temperature ranges.

Whilst the Series 11 fulfils all the classical functions expected of a mV-transducer, it is often used in development of larger OEM projects to test the performance of the KELLER OEM sensors. As a special order, any OEM sensor from Series 3 to 10 can be ordered in such a housing, with or without integrated compensation resistors. The customer can then verify that the chosen OEM sensor is suitable for the application.



SPECIFICATIONS (Excitation I = 1 mA)

	Range	s (FS)							
Version PAA, PA, PR-11	0,1	0,2	0,5	1	2	5	10	20	bar
Overpressure	2,5	2,5	2,5	2,5	3	7	15	30	bar
Output Signal nominal	20	35	60	100	175	175	175	175	mV
Version PA-11	50	100	200	400	600	1000			bar
Overpressure	75	150	300	500	700	1100			bar
Output Signal nominal	175	175	175	175	175	175			mV
PR-11 (negative range)	-0,1	-0,2	-0,5	-1					bar

PAA: Absolute. Zero at vacuum PA: Sealed Gauge. Zero at atmospheric pressure (at calibration day) PR: Vented Gauge. Zero at atmospheric pressure PR: For negative pressure versus ambient, same (negative) signal as positive ranges. By changing +OUT and -OUT, signal is positive.

Excitation Bridge Resistance Linearity + Hysteresis + Repeatability Zero Offset	3500 Ω nominal < 0,5 %FS (0,1 to 0	Constant current, nominal 1 mA (max. 4 mA) 3500 Ω nominal < 0,5 %FS (0,1 to 0,2 %FS with reduced FS signal) < 5 mV, fine adjustment of Zero with R5 \geq 20 Ω			
Compensated Temperature Range - Temperature Coefficients of Zero - Temperature Coefficients of Sensitivity Long Term Stability	Standard 050 °C < 0,0125 mV / °C < 0,01 % / °C < 0,25 mV typ.	Option -1080 °C < 0,025 mV / °C < 0,025 % / ° C < 0,50 mV typ.			
Electrical Connection Material in Contact with Media Protection / Weight	Binder 723 Stainless Steel AISI 316L, Seal: Viton® IP40. IP 65 with cable / 180 g				

Other materials and connections on request

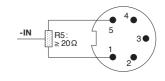


25 26 4 12 Ø 30 HEX 27 G 1/4"

ELECTRICAL CONNECTIONS

	Plug	Cable
-IN	1	White
+OUT	2	Red
+IN	3	Black
-OUT	4	Blue
-IN	5	Yellow

Schematic of plug



Subject to alterations

04/05

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Companies approved to ISO 9001 / EN 29001

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Options