



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)								
	Rang	jes (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
DAA. Absolute Zero et veeuwm	m DA. Cooled Course Zore at atmospheric proceurs (at collibration day)				DD.\	lantad			

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 Constant current, nominal 1 mA (max. 4 mA)

Bridge Resistance 3500 Ω nominal

Linearity + Hysteresis +

Repeatability < 0,5 %FS (0,1 to 0,2 %FS with reduced FS signal) Zero Offset < 5 mV, fine adjustment of Zero with R5 \geq 20 Ω

	Standard	Option
Compensated Temperature Range	e 050 °C	-1080 °C
- T.C. of Zero	< 0,0125 mV / °C	< 0,025 mV / °C
 T.C. of Sensitivity 	< 0,01% / °C	< 0,025% / ° C
Long Term Stability	< 0,25 mV typ.	< 0,50 mV typ.

Electrical Connection Binder 723

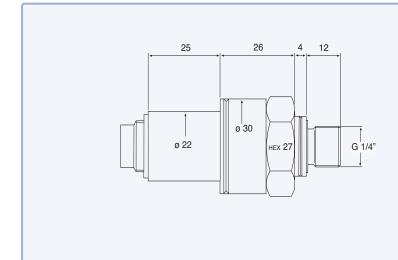
Stainless Steel AISI 316L, Seal: Viton® Material in Contact with Media

Protection / Weight IP40, IP 65 with cable / 180 g

Options Other materials and connections on request



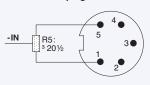




Electrical Connections

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

Schematic of plug



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Subject to alterations Companies approved to ISO 9001