

Piezoresistive Pressure Transmitters

Automotive and industrial applications

Series 22 offers a reliable cost effective solution for customers requiring medium to high quantities, of mass produced transmitters. Utilising the KELLER automatic brazing lines, this new technology allows crevice-free construction of the pressure port with no internal seals or O-rings, making possible high volumes at low cost. In the brass 22 M, a steel insert and a nickel diaphragm are brazed into a brass housing. In the steel 22 S, all parts are stainless steel (AISI 316 L). The glass feed-through header and silicon pressure sensor are welded to the steel insert underneath the oil filling.

The electronic circuit is fitted to the Packard plug. EMC-protection-components are mounted on the plug side, the amplifier on the sensor side. A flexible printed circuit "TAB" connects the sensor with the electronics. The transmitters are designed to have exceptionally good EMC ratings and operate over a wide temperature band, ideal for automotive, hydraulic and refrigeration control applications.



Series 22 M (Brass)

Series 22 S (Steel)

Specifications	Pressure Ranges								
PAA-22 M / PAA-22 S	5	10	20	30					bar
PA-22 M / PA-22 S	5	10	20	30	50	100	200	250	bar
Overpressure	15	30	60	90	150	250	300	300	bar

PAA: Absolute. Zero at vacuum PA: Sealed Gauge. 1000 mbar absolute

Type $\frac{2\text{-Wire}}{8\dots28\text{ V}}$ $\frac{3\text{-Wire}}{5\text{ V}\pm0,25\text{ V}}$

Output 4...20 mA 0,5 V...4,5 V ratiometric

Accuracy (Comp. Temp.-Range) \pm 1 %FS (0...50 °C)

± 2 %FS (0...80 °C) ± 4 %FS (-40...125 °C)

Isolation > 10 M Ω @ 50 VDC

Vibration / Shock 10 g / 5...2000 Hz, axes X/Y/Z / 20 g sine 11 ms

Response Time (0...99%) < 10 msec

Pressure Connection 3/8"-24 UNF-2A (with O-ring*), 7/16"-20 UNF (female),

G1/4" (with O-ring*)

EMC EN 61000-6-1 to -6-4 / EN 61326-2-3

Homologation E4-110R, E4-10R

(Homologation applies only to selected and authorised products)

Protection IP67 Weight ≈ 40

*oil and water resistant

7,6

Options Intermediate ranges, customer-specific housings,

mating plug with cable



Series 22 S 7/16"-20 UNF



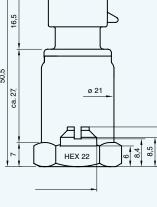
Series 22 S G1/4"



HEX 17

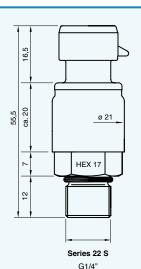
Series 22 M

3/8"-24 UNF-2A



Series 22 S

7/16"-20 UNF



Electrical Connections
Compatible with Packard-Plug
Type 12065286
GND

