



## 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	Press	sure R	anges						
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 Supply	2-Wire	3-Wire		
	828 V	$5 V \pm 0,25 V$		
Cuppiy				

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

 $lsolation > 10 \ M\Omega \ @ 50 \ VDC$  Vibration / Shock  $log / 5... 2000 \ Hz, \ axes \ X/Y/Z / 20 \ g \ sine \ 11 \ ms$ 

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\*)

FMC 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  $\approx 40 \text{ g}$ 

Options Intermediate ranges, customer-specific housings,

mating plug with cable



Series 22 S 7/16"-20 UNF



Series 22 S G1/4"

\*oil and water resistant

