Minipiezometer

PP 16 SS AU

HQ

Art.-No. 69.60.01

These miniature pressure transducers have been specially developed for the measurement of hydrodyna mic and aerodynamic pressures over a wide frequency band. The pressure-sensitive element is a high-sensitivity piezoresistive chip in micro-machined silicon. Mounted in a stainless-steel casing with sintered metal, it is protected from the external environment by a thin coating of silicone elastomer. Electrical supply and signal measurement are by means of a subminiature screened cable sealed to the back of the transducer casing.

Technical data:	
Dimesions hight/Ø:	12 mm/ 17.5 mm
Weight:	16 g
Filter type:	Sintered metal
Material:	V4A 1.4571
Filter area:	0.8 cm^2
Protection type:	IP 68
Power supply:	Constant current 1 mA
Power supply optional:	4 mA or 10 V_{DC}
Output signal:	40 mV (1 bar)/ 70 mV (2 bar)/ 125 mV (5 bar)/ 200 mV(10 bar)/ 200 mV (20 bar)
Overload security:	100 % f. s.
Linearity incl. hysteresis:	< 0.5 % f. s.
Thermal zero drift	0.025 mV/ K
Operating temperature range	0 up to +80 °C
Storage temperature range (dry)	-20 up to +80 °C
Temperature error 0...40 °C - Zero: - Sensitivity:	 0.025 mV/°C 0.05 typ. %/°C
Pressure and measuring ranges:	0 - 0.5/ 0 - 1/ 0 - 2/ 0 - 5/ 0 - 10/ 0 - 20/ 0 - 50/ 0 - 100/ 0 - 200 and 0 - 400 bar

mV