

QUARTZ PRESSURE AND TEMPERATURE TRANSDUCER PDK-P-M

APPLICATIONS

The Quartz pressure transducer PDK-P-M provides a precision pressure measurement with compensation of the temperature error in the operating temperature range.

The remarkable performance of this transducer is achieved through the use of a precision quartz crystal resonator, whose resonance frequency varies with the pressure-induced stress, in combination with a quartz crystal temperature sensor, which allows a thermal compensation of the pressure sensor frequency, and to achieve high accuracy over a wide temperature range.

FEATURES

- Meteorological and barometric reference
- Pressure calibration equipment
- High accuracy pressure standard (0.06%FS)
- Stainless steel case (optionally with titanium)



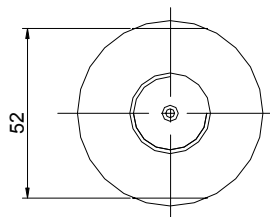
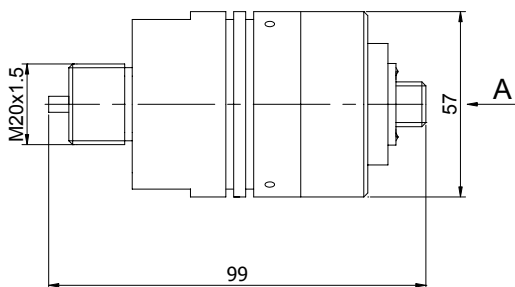
OPERATING CONDITIONS / ELECTRICAL CHARACTERISTICS of the base model

PARAMETERS		SPECIFICATIONS	UNITS
Pressure range P		0 to 0.06(8.7); 0.1(14.5); ... 40(5800)	MPa (PSI)
Operating temperature range		- 40 to + 80	°C
Pressure Accuracy		0.06; 0.1; 0.15	%FS
Temperature Accuracy		0.05; 0.1; 0.3	%FS
Temperature induced error in the operating temperature range		< ± 1	%
Pressure resolution		0.02	%FS
Temperature resolution		0.01	%FS
Frequency output	Pressure signal output "4". Frequency range	300...3000	Hz
	Temperature signal output "3". Frequency range	250...600	
Output amplitude (min) on load of 600 Ohm		5	V
Current consumption		30	mA
Supply voltage		9 to 12	V
Size		Ø 57 x 119	mm
Weight		< 350	gm
Warranty period of maintenance		1	year
Warranty period of storage from the date of manufacture		10	year

During a warranty period the repair of transducer is carried out by the manufacturer.

PACKAGE DIMENSIONS

UNITS: millimeters



Increased view A

