

## QUARTZ PRESSURE AND TEMPERATURE TRANSDUCER **PDTK-0.1**

### APPLICATIONS

The quartz pressure transducer PDTK-0.1 provides the precision pressure measurement with compensation of the temperature error in the operating temperature range. The remarkable performance of these transducers is achieved through the use of a precision quartz crystal resonator, whose resonance frequency varies with pressure-induced stress. A quartz crystal temperature signal provides a thermal compensation of the pressure measurement and achieves high accuracy over a wide temperature range.

### FEATURES

- Meteorological and barometric reference
- Pressure calibration equipment
- High accuracy pressure standard (0.06%FS)
- Plastic package



### OPERATING CONDITIONS / ELECTRICAL CHARACTERISTICS of the base model

PARAMETERS		SPECIFICATIONS	UNITS
<b>Pressure range P</b>		300...800 (40...106.7 / 7.75...17.4)	mm Hg (kPa/PSI)
<b>Operating temperature range</b>		- 60 to + 60	°C
<b>Pressure accuracy</b>		0.06; 0.1; 0.15	%FS
<b>Temperature accuracy</b>		0.05; 0.1; 0.3	%FS
<b>Temperature induced error in the operating temperature range</b>		< ± 1	%
<b>Pressure resolution</b>		0.02	%FS
<b>Temperature resolution</b>		0.01	%FS
<b>Frequency output</b>	Pressure signal output. Frequency range	300...3000/30000...42000	Hz
	Temperature signal output. Frequency range	250...600	
<b>Output amplitude (min) on load of 600 Ohm</b>		8	V
<b>Current consumption</b>		40	mA
<b>Supply voltage</b>		11 to 15	V
<b>Size</b>		66 × 68 × 25	mm
<b>Weight</b>		< 60	gm
<b>Warranty period of maintenance</b>		1	year
<b>Warranty period of storage from the date of manufacture</b>		10	year

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

### PACKAGE DIMENSIONS

UNITS: millimeters

