PRESSURE GAUGE

PCE-PDA 10L



- **Graphic display with lighting**
- **Min and Max value memory**
- **Datalogger and leak test**
- **Quick coupling connection**
- **Temperature measurement, flow measurement**
- **High precision measuring mode**
- **Simple operation (voice-controlled)**
- **Units switchable (Pa, kPa, hPa, ...)**

The differential pressure gauges of the PCE-PDA series are reliable differential pressure gauges for pressure measurement of gases in the range of ± 200 kPa, ± 2 kPa and 20 kPa depending on the model. The differential pressure gauge has many different pressure measuring functions. This gives the user more than 16 units. Furthermore, the differential pressure gauge measures in addition to the differential pressure, the temperature, flow velocity and volume flow. In addition, the maximum and minimum differential pressure can be displayed in the two-part graphic display. The resolution of the differential pressure can optionally be switched. The differential pressure gauge incorporates a high-precision mode that increases the resolution tenfold.

The PCE-PDA differential pressure gauge has a data logger function. This makes it possible to carry out a leak test on pressure lines in addition to the continuous storage of the measured values. In the data logger mode, it is possible to set the differential pressure gauge to a duration in which the data is stored at a previously selected interval. In the leakage measurement mode, the user must specify the measurement duration and the differential pressure level. After the measurement, the differential pressure gauge then displays the deviation from the set point. In addition to these two functions, the differential pressure gauge, with optional pilot pitot tubes, can determine the flow velocity or volume flow in pipes.

Specification

Differential pressure	
Measuring range	-20 ... +20 kPa
Resolution	1 Pa
Accuracy	±0.5 % FS
Temperature	
Measuring range	0 ... 50 °C
Resolution	0,1 °C
Accuracy	±1 °C

General technical data	
Measuring functions	ALARM, HOLD, MAX, MIN, Average value
Units	kPa, MPa, Pa, PSF, psi, Torr, inHg, mmHg, inH_2O, cmH_2O, mmH_2O, kg/cm^2, ATM, bar, mbar, hPa
Connections	5 mm nipple for quick connector
Display type	LCD graphic display with backlight
Display size	3 Inch
Display refresh rate	5 x per second
Measuring rate	10 Hz
Storage medium	Internal memory
Storage capacity	1024 Values
Storage interval from	1 s
Storage interval to	255 h
Interface	Micro-USB
Current consumption meter	50 mA DC
Measured medium	non-explosive gases, Air
Operating time	100 h
Automatic power-off	255 min
Housing	ABS (acrylonitrile-butadiene-styrene copolymers)
Overpressure	40 kPa
Menu language	English, German, Czech, English (GB)
Protection class (device)	IP41
Power supply	5 V, 500 mA
Connector type	Device-europlug
(Rechargeable) battery	2 x 1,5 V AA - rechargeable battery , Nickel-metal hydride battery
Capacity	2000 mAh
Operating conditions	0 ... 50 °C , 0 ... 80 % RH
Storage conditions	10 ... 55 °C , 0 ... 80 % RH
Dimensions (L x W x H)	170 x 100 x 30 mm
Weight	230 g