

Pressure Gauge PCE-PDA 100L



PCE-PDA 100L Pressure gauge for relative and differential pressure / Pitot tube adaptable to manometer / MAX MIN function / Datalogger

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.

- ▶ 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, ...)

Specifications

Measuring range temperature	0 ... 50°C / 32 ... 122°F
Resolution	0.1°C / 0.18°F
Accuracy	± 1°C / 1.8°F
Measuring range pressure	-100 ... 200 kPa
Resolution	1 / 10 Pa
Accuracy	± 0.5% of final value
Nominal pressure	200 kPa
Overpressure	300 kPa
Burst pressure	400 kPa
Media	Liquids, air
Measuring rate	10 Hz
Measurement units	Pa, hPa, kPa, MPa, mbar, bar, ATM, kg / cm ² , mmH2O, cmH2O, inH2O, mmHg, inHg, Torr, PSI, PSF
Pressure	Differential Pressure relative pressure (if neg. Pressure connection open)
Pressure connections	5 mm nipple for quick connectors
Max, Min and Hold function	Yes
Data logger	1024 memory slots 1 s ... 255 h Recording time per memory location 1 s ... 24h recording interval
Medium	For air and non-explosive gases
Zero correction	Yes, with a zero key
Averaging	Yes, between 0.1 ... 9.9 s
Display	Graphic LCD with backlight
Protection	IP41
Power supply	2 x 1.5V AA battery / 1.2V NiMh battery 5V / 500-mA USB power adapter
Current consumption	50-mA (with backlight) 10-mA (without backlight)
Operating temperature	0 ... 50°C / 32 ... 122°F
Storage temperature	10 ... 55°C / 50 ... 131°F
Dimensions	145 x 85 x 35 mm / 5.7 x 3.3 x 1.4 in
Weight	About 285 g / < 1 lb

Subject to change