PRESSURE GAUGE

PCE-VG 20



- **Measuring range: 0 ... 75000 µmHg**
- **Temperature measuring range: -10 ... 50°C**
- **Humidity measuring range: 0 ... 100% RH**
- **Moisture evaporation temperature**
- **Threshold alarm: 0 ... 75000 µmHg (adjustable)**
- **Alarm: visual, audible**
- **11 selectable units**
- **Connection: 1/4 inch SAE male thread (7/16 inch-20 UNF)**

The pressure gauge enables precise and reliable monitoring of vacuum systems and supports installation, maintenance and testing of a wide range of systems. The measuring range of the pressure gauge is 0 ... 75000 µmHg. The device supports the vacuum units micron, mTorr, µmHg, Torr, mmHg, Pa, hPa, kPa, mbar, psia and inHg. The vacuum resolution is 1 ... 5,000 µmHg depending on the measuring range. In addition, the pressure gauge calculates the moisture evaporation temperature to assist when evacuating refrigeration systems.

Reliable measurement is ensured by a precise Pirani sensor, while the measured values are updated every 0.5 seconds. The pressure gauge features an easy-to-read 1.8-inch TFT-LCD display and also measures ambient temperature in the range of -10 ... +50 °C as well as relative humidity from 0 ... 100 % RH. Power is supplied by three AA batteries. Connection to the system is via a 1/4 inch SAE male thread (7/16 inch-20 UNF).

The pressure gauge also features an adjustable threshold alarm with coloured backlight. As soon as the preset vacuum limit is reached, a visual alarm indication is triggered. The device is suitable for installation, maintenance and testing of refrigeration systems, air conditioning systems, cold rooms and for monitoring vacuum pumps.

Specification

Pressure	
Measuring range	0 ... 1000 µmHg
Resolution	1 µmHg
Accuracy	±(10% of measured value +10 µm Hg @ 100 ... 1.000 µm Hg) %
Pressure	
Measuring range	1000 ... 2000 µmHg
Resolution	10 µmHg
Pressure	
Measuring range	2000 ... 5000 µmHg
Resolution	100 µmHg
Pressure	
Measuring range	5000 ... 10000 µmHg
Resolution	500 µmHg
Pressure	
Measuring range	10000 ... 75000 µmHg
Resolution	5000 µmHg
Relative humidity	
Measuring range	0 ... 100 %
Resolution	1 %
Accuracy	±3%
Temperature	
Measuring range	-10 ... +50 °C
Resolution	0,1 °C
Accuracy	±0.5 °C
Temperature	
Measuring range	14 ... 122 °F
Resolution	0,2 °F
Accuracy	±0.9 °F

General technical data	
Units	°C, °F, Torr, mmHg, Pa, mT, microns, µmHg, hPa, kPa, mbar, psia, inHg
Connections	1/4 inch SAE
Display type	TFT-LCD-Display
Display size	1,8 Inch
Automatic power-off	30 min
Alarm	optical, Acoustic
Alarm modes	Alarm mode: target vacuum alarm Alarm limit: adjustable threshold: 0 ... 75000 µmHg
Overpressure	2 bar
Sensors	Pirani sensor
Measuring interval	0,5 s
Menu language	English, English (GB)
Protection class (device)	IP20
Power supply	batteries
(Rechargeable) battery	3 x 1,5 V AA battery , Alkali-manganese
Capacity	2970 mAh
Performance	2,96 Wh
Operating conditions	-10 ... 50 °C , 10 ... 90 % RH
Storage conditions	-20 ... 50 °C , 10 ... 90 % RH
Dimensions (L x W x H)	150 x 65 x 35 mm
Weight	190 g

PCE Instruments UK Ltd.
Chester Rd, Old Trafford Suite 1N-B, Trafford House, M32 0RS Manchester
Great Britain

Phone: +44 (0) 161 4649020
info@pce-instruments.co.uk