

USER MANUAL

DIFFERENTIAL PRESSURE METER

PCE-910 / PCE-917



ENGLISH



User manuals in various languages (français, italiano, español, português, nederlands, türk, polski) can be found via our product search on:
www.pce-instruments.com

Differential pressure meter for air, non-corrosive liquids and gases

With PCE digital pressure gauges, you can measure differential pressure. The pressure gauges are ideal for use in heating, ventilation and air conditioning (HVAC), hydraulics, medical technology, pneumatics and computer applications, as well as for laboratory measurements. The devices can be used to measure liquid media, with the exception of acids and alkalis, as well as gases that contain particles of acids or alkalis.

SYSTEM DESCRIPTION

1-1 Display

1-2 On / Off key

1-3 HOLD key

1-4 ZERO key

1-5 MAX / MIN key

1-6 UNIT selection key

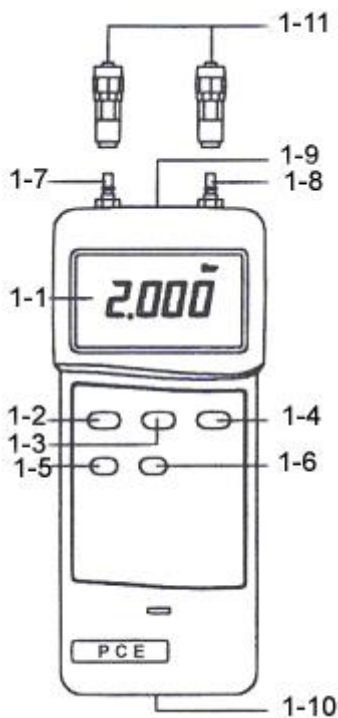
1-7 Connection for hose adaptor 1

1-8 Connection for hose adaptor 2

1-9 RS-232 interface

1-10 Battery compartment

1-11 Fast-action plug for hose adaptor



MEASUREMENT

- » Switch on the device by means of the On / Off key (1-2).
- » Select the desired pressure unit (mbar, mmHg, ...) by pressing the UNIT key (1-6). Carry out a zero setting by pressing the ZERO key (1-4).
- » Place the two fast-action plugs (1-11) on the adaptor connections (1-7 and 1-8).
- » The display will now show a number.

Attention: If the pressure at nipple 1 (1 - 7) is lower than the pressure at nipple 2 (1 - 8), a negative measurement result is displayed. If the opposite is true, a positive pressure is displayed.

- » If you press the 'Hold' button (1 - 3) during a measurement, the current measured value is frozen on the display and the "HOLD" symbol also appears on the display. If you press the 'Hold' button (1 - 3) again, the value disappears and the current measured values are displayed again.
- » If you press the 'MAX/MIN' button (1 - 5), a "REC" symbol appears on the display and the lowest and highest values of a measurement series are recorded. If you want to call up the maximum value on the display, press the 'MAX/MIN' button (1 - 5) again. The value and a 'MAX' symbol appear. If you press the 'MAX/MIN' button (1 - 5) again, the minimum value and a "MIN" symbol appear. To deactivate this function, press the 'MAX/MIN' button (1 - 5) and hold it down for approx. 2 ... 3 seconds.

TECHNISCHE DATEN

Model		PCE-910	PCE-917
PSI	Range	±29.00	±101.5
	Resolution	0.01	0.05/01
mbar	Range	±2000	±7000
	Resolution	1	5
inH ₂ O	Range	±802.0	±2810
	Resolution	0.5	2
mH ₂ O	Range	±20.40	±71.35
	Resolution	0.01	0.05
inHg	Range	±59.05	±206.7
	Resolution	0.02	0.1
mmHg	Range	±1500	±5250
	Resolution	1	5

Model		PCE-910	PCE-917
Torr	Range	-	-
	Resolution	-	-
Pa / kPa	Range	-	-
	Resolution	-	-
Kg/cm ²	Range	±2.040	±7.135
	Resolution	0.001	0.005
Accuracy		±2 % (full range)	
Measurement sequence		0.8 s	
Min- Max- Hold - Memory		Yes	
Interface		RS-232	
Power supply		1 x 9 V battery PP3	
Material of case		plastic	
Dimensions of case		180 x 72 x 32 mm	
Weight		210 g	

AUTO POWER OFF

To save energy, the device has an Auto Power Off function. The meter will switch off automatically after 10 minutes of inactivity. This function will be disabled as soon as the display shows the REC icon for

RS-232 DATA INTERFACE

By means of the integrated interface jack (1-9) and the optionally available software kit (cable + software), you can transfer your measurement results directly to a PC or laptop.

BATTERY REPLACEMENT

Replace the 9 V battery when the low battery indicator LBT appears on the left-hand side of the display. Remove the battery compartment cover from the back of the device with slight pressure, using your fingernails. Then remove the used battery and replace it by a new one. Push the cover back on.

DISPOSAL

For the disposal of batteries in the EU, the (EU) 2023/1542 directive of the European Parliament applies. Due to the contained pollutants, batteries must not be disposed of as household waste. They must be given to collection points designed for that purpose. In order to comply with the EU directive 2012/19/EU we take our devices back. We either re-use them or give them to a recycling company which disposes of the devices in line with law. For countries outside the EU, batteries and devices should be disposed of in accordance with your local waste regulations. If you have any questions, please contact PCE Instruments.

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