USER MANUAL

DIGITAL ANEMOMETER

PCE-AM 40

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

PRODUCT FEATURES

- Air velocity, air temperature and air flow measurement;
- With data hold. max/min/avg measurement function;
- Auto power off and cancel auto power off function;
- With data records download and real-time PC connection function. It can display real-time data sheet and realtime data charts; export and print data sheet and charts; PC software is suitable for Win7, WinB, Win10
- The upper and lower Limit can be set separately. When over upper lower Limit, there will be a buzzer alarm sound, and the the alarm light will Flash;
- Analog bar scale indication and low battery indication function.

DEVICE DESCRIPTION

1 - Fan Blade
2 - Menu
3 - Data Hold Decrease
4 - Data Record
5 - Air velocity / Air flow Decrease
6 - USB Interface
7 - Max / Min / Left key
8 - Unit Switch
9 - Power
10 - LCD Screen
11 - Alarm Indicator



DISPLAY

1 - Air flow / Air temperature
2 - Air velocity / Air flow / Data hold / Upper limit alarm / Lower limit alarm
3 - Auto power off
4 - Measuring symbol
5 - Battery level
6 - Units
7 - USB tips
8 - Temperature unit



SPECIFICATION

Measurement	Integral	
Air velocity	Range	0.06 ... 45.0m/s
	Accuracy	±(2%+0.2)
	Resolution	0.01 / 0.1 / 1
Air temperature	Range	0 .. 45°C (32.0 ... 113.0°F)
	Accuracy	±2°C (±3.6°F)
	Resolution	0.1 / 1
Display	4 digits, max 9999	
Sensor	Infrared laser tube cutting method	
Sampling rate	2 times/s	
Repeated test deviation	±2%	
Data logger	1000 groups	
USB connection	✓	
Synchronous update	Refer to PC information for program update	
Auto power off	15 mins (can be canceled)	
Working environment	-10 ... 50°C, max 80%RH, indoor altitude <2000m	
Storage environment	-10 ... 50°C, max 70%RH, (battery removed)	
Product size	239 x 70 x 35mm	
Screen size	53 x 44mm	
Weight	Approx. 210g (battery not included)	
Power	3 x 1.5V AA (LR06) battery USB micro interface 5V	

AIR VELOCITY

Unit	Range	Resolution	Min value	Accuracy
m/s	0.06 .. 45.0	0.001 / 0.1 / 1	0.06	±(2%+0.2)
km/h	7.0 .. 752.0		1.0	±(2%+0.7)
ft/m	10 .. 8858		10	±(2%+20)
ft/s	1.0 .. 147.5		1	±(2%+0.2)
mile/h	1.0 ... 100.6		0.1	±(2%+0.2)
knots	0.1 ... 84.48		0.1	±(2%+0.2)
8ft	0 .. 12			

m/s, km/h, ft/min, mile/h, knots, bft.
Unit conversion:
1m/s= 3.6km/h= 196.85ft/min= 3.280ft/s= 2.237mile/h =1.944knots
1 Knots = 0.7234710361(Bft)

AIR FLOW

Unit	Range	Resolution
CFM	0 ... 9999ft^3 / min	0.001 ... 100
CMM	0 ... 9999m^3 / min	0.001 ... 100
CMS	0 ... 9999m^3 / s	0.001 ... 100

CFM= Air velocity (ft/min) x Area (ft^2)
CMM=Air velocity (m/s) x Area (m^2)x60
CMS=Air velocity (m/s) x Area (m^2)

CFM (Cubic feet per minute)
CMM (Cubic meter per minute)
CMS (Cubic meter per second)

AIR TEMPERATURE

Unit	Range	Resolution	Accuracy
°C / °F	0 ... 45°C (32.0 ... 113.0°F)	0.1 / 1	±2°C ±3.6°F

BUTTON FUNCTION DESCRIPTION

	Power button, long press to turn on and tap to turn off:
	Data hold and clear the data records, tap to turn on and turn off data hold; Under the data storage window, long press to clear the data records. Press UP to increase the data and long press for accumulation;
	Air velocity and air Flow units switching; long press > 2s to switch the temperature unit;
	Data logger, long press > 2s to start the data recording, short press to stop and restart, then long press > 2s to close the data record;
	Short-press to cycle among the maximum value and minimum value, then the sub-window will demonstrate the value. LEFT uses to adjust the air volume area and the alarm value, pressing to adjust the carry, and then press the UP and DOWN keys to adjust the value;
	VEL refers to air velocity, FLOW refers to air Flow. DOWN refers to decrease data, long press to decrease;
	Menu button

MENU Button

- Press the 1st time to enter the air flow cross-sectional area setting. Short press UNIT to switch between cubic feet and square meters. Use the UP and DOWN and LEFT keys to adjust the value;
- Press the 2nd time to enter the REC data recording interval time adjustment. You can adjust the recording interval time through the UP and DOWN keys. The default value is 5s, 70s, 30s, 60s, 30mins, 60mins, 12h and 24h, 8 levels in total;
- Press the 3rd time to enter the data record storage interface, the REC symbol is displayed and the number of records is displayed at the bottom. You can view the record groups by pressing the UP and DOWN buttons. Under this menu, long press the ZERO button ≥2s to clear the stored data;
- Press the 4th time to enter the Hl over alarm setting, the default is to close the DIS state, press the UP and DOWN buttons to open. En refers to open;
- Press the 5th time to enter the low alarm value setting, the default is to close the DIS state, press the UP and DOWN buttons to open. En refers to open;
- Press the 6th time to enter and exit the menu. Under any menu, long press MODE> 2s to exit the menu and save the data.
- **Note:** The recorded data will be saved to avoid lost after power-off or replace the battery.

MEASUREMENT METHOD

- Press POWER to turn on the meter
- Refer to the function description of each button, press the function button to enter each measurement function;
- Check the measured value on the LCD display;
- Measuring done. Press the POWER button to turn the meter off.

AUTO POWER OFF AND CANCEL AUTO POWER OFF

- The auto power off function switches on by default, the screen shows the APO symbol when turning on the meter. Only if you stop using it for 15 minutes will it trigger the automatic power off mode;
- If you need to cancel the automatic shutdown function, press HOLD and POWER button to turn on the meter, the APO symbol will not appear and the automatic power off function is canceled. The auto power of function can be restored as long as restart the meter;
- When the meter turns on the auto shutdown function, the display screen shows the APO symbol. APO symbol will disappear once canceled the auto shutdown function;
- The meter will not automatically power off even if the APO symbol is on under USB powered mode.

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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