Data Loggers

PCE-HT 71

Mini data register for temperature and humidity, with USB connection

Self-sufficient data register with internal sensors to measure environmental temperature and humidity. The register is ideal for continuous testing of warehouses, transport, containers, etc. Using the software, the device can be programmed and data retrieved and transferred to computer to allow for analysis of data or graphical representation of the data.

- Memory for 32,000 readings (16,000 readings for temperature and 16,000 for humidity)
- Measurement time intervals adjustable from 1 s up to 2 h
- Device works self-sufficiently
- USB connector for connection to a computer
- Easy to use
- Compact design
- Ability to transfer data
- Includes software

Technical specifications

<table>
<thead>
<tr>
<th>Measurement range</th>
<th>PCE-HT 71</th>
</tr>
</thead>
<tbody>
<tr>
<td>-40 to +70 °C / 0 to 100 % r.h.</td>
<td>100 to +70 °C / 0 to 100 % r.h.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Accuracy</th>
<th>±0.5 °C / ±2 % r.h.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Resolution</td>
<td>±0.1 °C / ±1 % r.h.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Start and finish date</th>
<th>Programmable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Memory</td>
<td>32,000 readings</td>
</tr>
<tr>
<td>Operating conditions</td>
<td>-40 to +70 °C / 0 to 100 % r.h.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Power</th>
<th>Replaceable internal battery, 3 year battery life</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>30 x 25 x 130 mm</td>
</tr>
<tr>
<td>Holder</td>
<td>Wall mount included</td>
</tr>
<tr>
<td>Weight</td>
<td>30 g</td>
</tr>
</tbody>
</table>

Contents

PCE-HT 71 data logger, software, battery, wall mount and user’s manual

PCE-T100 & PCE-HT110

Data logger with backlight display for continuous measurements of temperature or temperature and relative humidity simultaneously (software is optional)

The data logger determines the temperature (PCE-T100) or the temperature and the humidity of the air (PCE-HT110). The most important feature of this data logger is its memory (up to 64,000 values) which allows the user to take measurements over a period of time. This is useful in food processing for upright freezers in supermarkets, refrigerated trucks or warehouses, and for the industrial sector relating to warming and cooling processes, machine temperature or in warehouses. The current measurement is displayed in the LCD and it is recorded to memory so you can read the value at the time of measurement, or if you prefer, you can transfer the data to a PC and process this data for analysis or presentation. You will be able to remove the numeric columns and for example, in the food processing sector, you will recognize quickly if there has been a temperature change and what time it occurred. The internal real time clock allows the user to organize the events accurately. You can adjust time interval measurements as you require. The enclosure is resistant to dust and exposure to water, and the electronic component is shock resistant and against rough handling that might occur in the industrial sector. The data logger has a backlight display in case of insufficient light conditions.

- Measure and record the temperature or the temperature and humidity
- Memory: up to 64,000 readings
- Optional software and optional RS-232 cable to transmit the data to a computer for analysis
- Display with backlight
- Real time clock and data adjustment (5 sec / month departure)
- Measurement intervals and time adjustment (1 s to 60 min)
- Battery included
- Battery status shown on the display
- Wall mounting clip included
- Ingress protection IP 64: water proof for all weather applications
- ISO Certificate (optional)

Technical specifications

<table>
<thead>
<tr>
<th>Model PCE-T100 PCE-HT110</th>
</tr>
</thead>
<tbody>
<tr>
<td>Measurement range</td>
</tr>
<tr>
<td>Accuracy</td>
</tr>
<tr>
<td>Resolution</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Start and finish date</th>
<th>Programmable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sampling time</td>
<td>1 second to 60 min (adjustable)</td>
</tr>
<tr>
<td>Power</td>
<td>2 replaceable internal batteries of (1.5 V)</td>
</tr>
<tr>
<td>Battery life</td>
<td>approx. 1 year</td>
</tr>
<tr>
<td>Operating conditions</td>
<td>-30 to +70 °C / 0 to 98 % r.h.</td>
</tr>
<tr>
<td>Dimensions</td>
<td>92 x 55 x 22 mm</td>
</tr>
<tr>
<td>Weight</td>
<td>200 g</td>
</tr>
</tbody>
</table>

Software with connection station can be ordered separately

Anti-theft system available separately, includes padlock

Contents

Data logger (model PCE-T100 or PCE-HT110), wall mounting clip, batteries and user’s manual

(Software is available as an optional accessory)

Model No. Description

PCE-T100 Temperature logger with internal sensor
PCE-HT110 Temperature and humidity logger with combined sensor

Optional accessories

- PCE-CB Kit software (in English, Docking-Station and RS-232 cable for PC)
- RS232-USB RS-232 to USB adaptor
- PCE-SAFE Anti-theft / metal wall support, padlock included
- CAL-T1 ISO Certificate for the temperature logger PCE-T100
- CAL-RF ISO Certificate for the temperature and humidity logger PCE-HT110
Data Loggers

DaqPro

8 channel data logger which accepts NTC, thermocouples, electrical current, voltage...

Data logger with 8 input channels of universal use which provides almost all the requirements in the industrial sector. With its high resolution and fast Analog to Digital converter (ADC), DaqPro meets the majority of data logging requirements in most industrial applications. Its unique ability to display measured values and analyze them in real-time on a graphical interface minimizes the need to download collected data to a computer for further analysis.

- Highest quality
- Automotive testing
- External research
- Quality assurance
- Heating sector, air conditioning and ventilation applications
- Plant trouble-shooting
- Electricity transients fail detection
- Plant and monitoring stations
- 8 channels for measurement
- Inputs: 0 ... 24 mA, 0 ... 5 mA, 0 ... 5 mV, 0 ... 10 V, NTC, Pt100, thermocouples, pulses and frequency
- Alarm output
- Memory: 512 KB, accuracy: 16 bits
- Calibration certificate
- Powerful analysis software for Windows and carrying case

Technical specifications

Ranges / current: 0 to 24 mA; ±0.5 %

Accuracy voltage: 0 to 50 mV or 0 to 10 V; ±0.5 %

Ranges / current: 0 to 24 mA; ±0.5 %

Memory up to 512,000 values

Sampling time adjustable: 4,000 values/sec for 1 value/hour

Start and finish date programmable

Advanced data analysis software

Data logger PCE-MSR145

Data logger for continuous measurement, 2,000,000 values like temperature, humidity, pressure and acceleration, longlife rechargeable battery pack

The MSR 145 is a miniaturised universal datalogger for measuring and recording different physical measurement parameters. It contains a temperature sensor, a humidity sensor with integrated temperature sensor, pressure and a 3-axis accelerometer (e.g. location determination). The measurement parameters can be transferred to a PC either once data logging is completed or during the data logging process. The software enables users to customise the way in which the MSR 145 measures and records data according to their requirements. The integrated clock (RTC) allows data from as many MSR 145 units as required to be synchronised and merged into a single data record.

- Available as standard model and as waterproof model
- For temperature, relative humidity with integrated temperature sensor, pressure, (e.g. altimeter, water level, barometer) and triaxial acceleration
- Memory for 2,000,000 values
- USB-interface
- Software included
- Real time clock and data adjustment
- Measurement intervals and time adjustment (1 s to 12 h)
- Longlife rechargeable Li-ion battery pack
- Indicator LED (incl. alarm)

Technical specifications

Ranges temperature: -10 to +65 °C

Accuracy ±0.1 °C (+5 to +45 °C) ±2 % r.h.

Sampling time 1 s to 12 h

Memory 2,000,000 values

Alarm settings adjustable

Software included

Ingress protection PCE-MSR145S: IP 60

PCE-AM-402 Wind speed velocity adaptor, impeller, 0.2 to 30 m/s

PCE-LX-02 Light adaptor, 0 to 50000 lux

PCE-PS-403 Pressure adaptor, 1/4” thread, 3.5 to 3500 kPa

PCE-EL-02 Light adaptor, 0 to 50000 lux

PCE-AM-042 Wind speed velocity adaptor, impeller, 0.2 to 30 m/s

PCE-SL-406 Sound adaptor, 30 to 130 dB(A)

PCE-EMF-824 EMF adaptor, 0 to 20 µTesla / 0 to 200 mGauss

Contents

Data Logger PCE-MSR145, Software with USB cable and operator’s manual

Model No. Description
PCE-AM-402 8 channel data logger

Optional accessories

PCE-EP-401 Cable with connectors and open ended wires to connect to the DaqPro and measurement converter

PCE-TA-601 Optical resolutions adaptor, 10 to 20000 r.p.m.

PCE-PS-403 Pressure adaptor, 1/4” thread, 0.2 to 30 m/s

PCE-UX-02 Light adaptor, 0 to 50000 lux

PCE-AM-042 Wind speed velocity adaptor, impeller, 0.2 to 30 m/s

PCE-SL-406 Sound adaptor, 30 to 130 dB(A)

PCE-EMF-824 EMF adaptor, 0 to 20 µTesla / 0 to 200 mGauss

Contents

Data logger PCE-MSR145, Software with USB cable and operator’s manual

Model No. Description
MR145S-TH 2 channel data logger (temperature, humidity)
MR145S-TP 2 channel data logger (temperature, pressure)
MR145S-TA 2 channel data logger (temperature, acceleration)
MR145S-THP 3 channel data logger (temperature, humidity, pressure)
MR145S-THPA 3 channel data logger (temperature, humidity, acceleration)
MR145S-THA 3 channel data logger (temperature, humidity, acceleration)
MR145S-THP 3 channel data logger (temperature, humidity, pressure)
MR145S-THPA 4 channel data logger (temperature, humidity, pressure, acceleration)
PCE-T312

Highly accurate thermometer with two type-K channels

The PCE-T312 handheld digital thermometer had a large LCD and are accurate to within ±0.15 %. Thanks to the backlight display you can use it under adverse conditions. The instrument has 2 type-K channels and is frequently used to measure temperature before and after carrying out an action or process, i.e. when you turn a machine on or off. Pressing the backlight key will turn on and off the display backlight and the user will be able to see the readings shown for T1 and T2.

- For type-K and type-J thermocouples
- Data Hold function
- Min Hold and Max Hold functions
- Low battery indicator
- Shock-resistant ABS enclosure
- Backlight key
- Type K thermocouple and battery included

Technical specifications

<table>
<thead>
<tr>
<th>Measurement range</th>
<th>-200 to 1372 °C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Resolution</td>
<td>up to 100 °C; 0.1 °C</td>
</tr>
<tr>
<td>above: ±1 °C</td>
<td></td>
</tr>
<tr>
<td>Accuracy</td>
<td>±0.15 %, ±1 °C</td>
</tr>
<tr>
<td>above: ±0.5 %, ±2 °C</td>
<td></td>
</tr>
<tr>
<td>Inputs</td>
<td>2</td>
</tr>
<tr>
<td>Display</td>
<td>large LCD</td>
</tr>
<tr>
<td>Power</td>
<td>3 x 1.5 V batteries (included)</td>
</tr>
<tr>
<td>Operating temperature</td>
<td>0 to +50 °C, below 80 % r.h.</td>
</tr>
<tr>
<td>Dimensions</td>
<td>150 x 50 x 35 mm</td>
</tr>
<tr>
<td>Weight</td>
<td>200 g</td>
</tr>
</tbody>
</table>

Contents

PCE-T312 thermometer, thermocouple sensors, batteries and user’s manual

Model No. | Description
---       | ---
PCE-T312  | Thermometer with 2 channels

Optional Accessories

CAL-T2 ISO Calibration, 2 channels

See page 3 for temperature sensors.

PCE-T390

Thermometers with memory, RS-232 interface and software

The PCE-T390 handheld thermometer is very accurate and has an internal memory that can store up to 16,000 readings. With the software, which is included in English, and the RS-232 interface you can transfer data to a PC for further analysis. Time interval measurements can be set by the user. The PCE-T390 can display 4 simultaneous readings and store them automatically to memory.

- Thermometer with 4 channels
- Data Hold and Max Hold indicators
- Average value measurement
- Low battery indicator
- Auto shut-off
- Type-K and type-J thermocouple sensor and Pt100
- Windows compatible software
- Thermocouple sensors up to 220 °C included
- Battery pack included

Technical specifications

| Measurement type K: | -200 to +1370 °C |
| Measurement Pt100:  | -200 to +1562 °C |
| Resolution type K:  | 0.1 °C (from -200 to 200 °C) |
|                      | ±0.2 % of reading measurement (-200 to 200 °C) |
|                      | ±0.5 % (200 to 400 °C) |
|                      | ±0.7 % (400 to 1370 °C) |
| Thermocouple inputs | 4                |
| Sequence measurement | up to 3999 seconds (adjustable) |
| Data memory          | 16,000 values, with four sensors, 4,000 values each one |
| Display               | four times display LCD (25 mm) with clock |
| Power supply          | 9 V pack         |
| Operating temperature | 0 to +50 °C, < 80 % r.h. |
| Dimensions            | 174 x 68 x 42 mm |
| Weight                | 310 g           |

Contents

PCE-T390 thermometer, type-K thermocouple sensor, software, RS-232 cable and user’s manual

Model No. | Description
---       | ---
PCE-T390  | Thermometer with 4 channels

Optional Accessories

NET-300 Net Power Adaptor
RS232-USB USB to RS-232 cable adapter
BOX-LT1 Carrying case
CAL-T4 ISO Calibration, 4 channels

See page 3 for temperature sensors.

PCE-T395

Data logger thermometer with date / clock function, RS-232 interface and software

The PCE-T395 handheld thermometer is accurate and has an internal memory that can store up to 16,000 values with date and time. With the software and the RS-232 interface you can transfer data to a PC for further analysis. Time interval measurements can be set by the user. The PCE-T395 can display 4 simultaneous readings and store them automatically to memory.

- Data logger with date and time function
- Data Hold and Max Hold indicators
- Average value measurement
- Auto power-off
- For type-K thermocouple sensor
- Windows compatible software
- 2 x Thermocouple sensors up to 220 °C included
- Battery and carrying case included

Technical specifications

| Measurement range         | -200 to 1370 °C |
| Resolution                | 0.1 °C (from -200 to 200 °C) |
|                           | 1 °C (from +200 to 1370 °C) |
| Accuracy                  | ±0.2 °C (±0.5 °C) |
| Thermocouple inputs       | 4                |
| Sequence measurement      | 3 seconds for 4 sensors |
| Data logger               | 16,000 values with date and time, with four sensors, 4,000 values each one |
| Display                   | four times display LCD (25 mm) with clock |
| Power supply              | 9 V pack         |
| Operating temperature     | 0 to +50 °C, < 90 % r.h. |
| Dimensions                | 184 x 64 x 30 mm |
| Weight                    | 250 g (battery included) |

Contents

PCE-T395 thermometer, 2 x type-K thermocouple sensor, software, RS-232 cable, carrying case and user’s manual

Model No. | Description
---       | ---
PCE-T395  | Data logger thermometer, 4 channels

Optional Accessories

NET-300 Socket for mains power adapter
RS232-USB USB to RS-232 cable adapter
CAL-T4 ISO Calibration, 4 channels

See page 3 for temperature sensors.
Humidity- / Moisture Meters

PCE-313 A
Thermohygrometer with memory and software, for professionals

In addition to relative humidity, this thermohygrometer also measures temperature. Its internal memory allows for storage of up to 16,000 readings individually or as a data logger. Once the data has been stored to memory, it can later be transferred to a PC with the help of the software. This thermohygrometer is extremely easy to use.

- Simultaneous display of temperature and relative humidity
- Sensor with 1.5 m cable
- Data logger with time and date
- Software to transfer and evaluate your data
- Auto shut-off (can be disabled)
- Data Hold
- Internal memory
- Max Hold
- ISO 9000 Certificate (optional)

Technical specifications
- Measurement range: 0 to 100 % r.h., -20 to 60 °C
- Accuracy: ±2.5 % r.h., ±0.7 °C
- Resolution: 0.1 % r.h., 0.1 °C
- Memory: 16,000 readings
- Measurement rate: 1 second or less
- Min/MAX/Peak-Hold: yes
- Recalibration: optional calibration kits
- Software: in English
- Display: 3.5 digit LCD
- Interface: RS-232
- Operating conditions: 0 to 40 °C, < 80 % r.h.
- Dimensions: sensor: 190 mm x 13 mm diameter
- Power: 9V battery pack
- Weight: 320 g

Contents
PCE-313 A thermohygrometer, data cable, software, battery pack, carrying case and user’s manual

Model No. Description
PCE-313 A Thermohygrometer with data logger
PCE-313 S Thermohygrometer with data logger as the PCE-313 A, but with sintered filter for adverse conditions

Optional accessories
RS232-USB to USB Adaptor
CAL-RF ISO Certificate
CAL-SET-RF Calibration bottles for 33 % or 75 % r.h.
NET-300 Power supply (300 mA)

PCE-3000
Thermohygrometer with dew point calculation, memory and software

The PCE-3000 thermohygrometer is an accurate tool which can measure dew point, relative humidity and temperature. The most important feature of this thermohygrometer is its internal memory with which you can store up to 1000 readings. You can store the data individually or in form of a data logger, allowing for measurements to be taken over a period of time without the need to monitor the device. The thermohygrometer stores the measurements with date and hour. Using the software, the readings can be transferred to a computer to be analysed.

- Simultaneously displays relative humidity and temperature
- Accurate to within ±2 % of relative humidity
- Dew point measurement
- Software and data cable included
- Memory stores up to 1000 readings
- RS-232 interface
- ISO 9000 Certificate (optional)

Technical specifications
- Measurement range: 0 to 100 % r.h., 0 to 50 °C
- Accuracy: ±2 % r.h., ±0.5 °C
- Resolution: 0.01 % r.h., 0.01 °C
- Dew point: -25.3 to 48.9 °C
- Memory: 1000 readings
- Timed measurement: 1, 2, 10, 30, 60, 600, 1800 or 3600 seconds
- Min Max Peak Hold: yes
- Recalibration: yes, in PCE Group
- Software: in English
- Display: 16mm dual display LCD
- Power: 9V battery pack
- Sensor dimensions: 200 x 15 mm
- Measurer dimensions: 203 x 76 x 38 mm
- Weight: 315 g

Contents
PCE-3000 thermohygrometer with sensor, software, RS-232 cable, battery, carrying case and user’s manual

Model No. Description
PCE-3000 Thermohygrometer with memory

Optional accessories
RS232-USB to USB Adaptor
CAL-RF ISO Certificate

PCE-WM 1
Thermohygrometer to measure relative and absolute humidity [g/m³] and dew point

The PCE-WM 1 Thermohygrometer simultaneously measures relative humidity and temperature. It comes with an external sensor to measure surface temperature and it can calculate dew point and absolute humidity in g/m³. The two external probes, the thermohygrometer probe and the temperature probe, each have a 1m long spiral cable.

- Measures relative humidity and temperature
- Calculates absolute humidity in g/m³ and dew point
- Data Hold function maintains readings on the display
- External probe with spiral cable
- Auto shut-off function
- ISO Certificate (optional)

Technical specifications
- Measurement range: 10 to 95 % r.h., -20 to 80 °C
- Accuracy: ±2 % r.h., ±0.5 °C
- Resolution: 0.1 % r.h., 0.1 °C
- Dew point: -25.3 to 48.9 °C
- Memory: 1000 readings
- Timed measurement: -
- Min Max Peak Hold: yes
- Recalibration: yes
- Software: -
- Interface: -
- Display: 3.5 digit LCD
- Power: 9V battery pack
- Sensor dimensions: 150 x 30 mm
- Device dimensions: 165 x 80 x 33 mm
- Weight: 380 g

Contents
PCE-WM 1 Thermohygrometer with combi probe and temperature probe, battery pack, carrying case and user’s manual

Model No. Description
PCE-WM 1 Thermohygrometer to measure dew point and temperature

Optional accessories
PCE-WM-KF Spare combi probe (humidity + temp.)
CAL-RF ISO Certificate
**Air Flow Meters**

### PCE-A420

**“Cup style” hand anemometer**

This cup anemometer measures wind speed. Probably, the most important feature of this anemometer is that it eliminates completely the need to aim the sensor into the direction of the wind. Unlike conventional rotary vane anemometers that require precise aiming and alignment for good wind speed accuracy, a cup style anemometer can capture the wind in any direction just like the professionals use.

- Data memory: 100 point data logging (recall to display)
- Cup style, very easy to use
- Eliminates the need to aim into the wind
- Selectable units: m/s, km/h, mph, knots, miles/h
- Min, Max and Hold functions
- Auto shut-off
- Large LCD
- ISO calibration certificate (optional)

### Technical specifications

<table>
<thead>
<tr>
<th>Measurement</th>
<th>Min</th>
<th>Max</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wind speed (m/s)</td>
<td>0.9</td>
<td>35.0</td>
</tr>
<tr>
<td>(ft/min)</td>
<td>0.1</td>
<td>5910</td>
</tr>
<tr>
<td>(km/h)</td>
<td>0.1</td>
<td>126.0</td>
</tr>
<tr>
<td>(mph)</td>
<td>1.6</td>
<td>78.2</td>
</tr>
<tr>
<td>(knots)</td>
<td>1.4</td>
<td>68.0</td>
</tr>
</tbody>
</table>

**Accuracy**: ±2 %

**Resolution**: 0.1 m/s; 0.1 km/h; 0.1 knots

**Auto shut-off**: yes

**Indicator**: large LCD, 28 x 19 mm

**Cup probe**: Ø 135 mm, plastic

**Operating temperature**: 0 to +50 °C, <80 % r.h.

**Power**: 4 AAA batteries (1.5 V)

**Dimensions**: 190 x 40 x 52 mm

**Weight**: 180 g

### Contents

- PCE-A420 cup anemometer, batteries, carrying case and user’s manual

### Model No.

- PCE-A420 Cup style anemometer

### Optional accessories

- CAL-LCA ISO Certificate

---

### PCE-AM81

**Digital and pocket-sized anemometer capable of several units of measurement**

This pocket anemometer, with rotary vane sensor, is ideal for determining wind speed (air speed) indoors as well as for outdoor environments. With this lightweight portable instrument you can test environmental conditions on the spot and quickly take all your measurements. Its lightweight impeller is highly accurate.

- Light weight impeller
- MAX / MIN functions
- Several Units: m/s, km/h, nudos, mph, knots, ft/min
- Data Hold function
- LCD (8 mm)
- Handle with safety cord and user’s manual
- ISO calibration certificate (optional)

### Technical specifications

<table>
<thead>
<tr>
<th>Measurement</th>
<th>Min</th>
<th>Max</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wind speed (m/s)</td>
<td>0.4</td>
<td>30.0</td>
</tr>
<tr>
<td>(ft/min)</td>
<td>80</td>
<td>5910</td>
</tr>
<tr>
<td>(km/h)</td>
<td>1.4</td>
<td>108.0</td>
</tr>
<tr>
<td>(mph)</td>
<td>0.9</td>
<td>67.0</td>
</tr>
<tr>
<td>(knots)</td>
<td>0.8</td>
<td>58.3</td>
</tr>
<tr>
<td>(Beaufort)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Accuracy**: ±3 %

**Resolution**: 0.1 m/s; 0.1 km/h; 0.1 knots

**Auto shut-off**: yes

**Min / Max / Peak / Hold**: yes

**Indicator**: LCD (8 mm)

**Impeller**

**Operating temperature**: 0 to +50 °C

**Power**: 9 V Battery

**Enclosure**: plastic

**Dimensions**: 156 x 60 x 33 mm

**Weight**: 180 g

### Contents

- PCE-AM81 anemometer, safety cord, battery, user’s manual

### Model No.

- PCE-AM81 Anemometer

### Optional accessories

- CAL-LCA ISO Certificate

---

### PCE-007

**Anemometer with external vane sensor, memory and software**

With this anemometer you can measure wind speed and temperature of air. When you have adjusted the transverse area, the anemometer also displays directly the volumetric air flow. The measured values can be directly stored in the device and later transfer data to a computer for further analysis. The external vane sensor (connected to a 1.5 m cable) increases the mobility and flexibility for an exact wind speed measurement.

- Measures and displays air volume
- Memory to store up to 2000 values
- Built-in RS-232 Interface
- Software and cable included
- Several units of measurement: m/s, ft/min, knots, km/h, mph
- Dual LCD
- Max & Min Hold
- Auto shut-off
- Calibration certificate (optional)

### Technical specifications

<table>
<thead>
<tr>
<th>Measurement</th>
<th>Min</th>
<th>Max</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wind speed (m/s)</td>
<td>0.3</td>
<td>45</td>
</tr>
<tr>
<td>(ft/min)</td>
<td>144</td>
<td>6895</td>
</tr>
<tr>
<td>(km/h)</td>
<td>2.5</td>
<td>126.0</td>
</tr>
<tr>
<td>(mph)</td>
<td>1.6</td>
<td>78.2</td>
</tr>
<tr>
<td>(knots)</td>
<td>1.4</td>
<td>68.0</td>
</tr>
<tr>
<td>(Beaufort)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Air Temperature</td>
<td>0.0</td>
<td>45.0 °C</td>
</tr>
<tr>
<td>Air Volume</td>
<td>0.0</td>
<td>9999 m/min</td>
</tr>
</tbody>
</table>

**Accuracy**: ±3 %, ±0.1 of reading

**Resolution**: ±1 °C

**Auto shut-off**: yes

**Min / Max / Peak / Hold**: yes

**Indicator**: large LCD, 28 x 19 mm

**Cup probe**: Ø 135 mm, plastic

**Operating temperature**: 0 to +50 °C, <80 % r.h.

**Power**: 4 AAA batteries (1.5 V)

**Enclosure**: plastic

**Dimensions**: 190 x 40 x 32 mm

**Weight**: 180 g

### Contents

- PCE-007 anemometer, external impeller, safety cord, interface, battery and user’s manual

### Model No.

- PCE-007 Cup style anemometer

### Optional accessories

- CAL-LCA ISO Certificate

---

### Optional accessories

- RS232-USB RS-232 to USB adaptor
- CAL-LCA ISO Certificate
### PCE-008

**Thermo anemometer with external vane sensor, interface and software**

The PCE-008 thermo anemometer is appealing for its high quality and low price. This device combines wind speed measurement with air temperature. Introducing the diameter of a channel, it also calculates the current volume. Thanks to its internal data logger you can store up to 16,000 values with date and time stamp (e.g. for measurements over a fixed period of time).

- Measures wind speed and temperature
- Measure in several units, m/s, knots, km/h, mph / flow in m³/h
- Temperature in °C or °F
- Data logger (16,000 values)
- Data-Hold function
- MIN / MAX function
- Average function
- RS-232 interface
- ISO calibration certificate (optional)

#### Technical specifications

- **Measurements ranges**
  - Wind speed: 0.2 to 25 m/s
  - Air temperature: 0 to 50 °C
  - Air volume: 0 to 9,990 m³/min (it’s calculated with the average value)

- **Resolution**
  - Wind speed: 0.1 m/s
  - Air temperature: ±0.1 °C
  - Air volume: 0.001 to 100 m³/min

- **Accuracy**
  - Wind speed: ±1.0 %
  - Air temperature: ±0.8 °C
  - Air volume: ±2.0 % (of reading); ±0.2 m/s

- **Interface**
  - RS-232
- **Power**
  - 4 AA batteries 1.5 V
- **Auto power-off**
  - after 5 min
- **Weight**
  - 515 g

#### Contents

- PCE-008 thermo anemometer, carrying case, battery, user’s manual, software and RS-232 interface

#### Optional accessories

- RS232-USB
- CAL-LCA

---

### PCE-424

**Professional thermo-anemometer for measurement of air speed**

This thermo-anemometer makes accurate air speed and temperature measurements in fan systems. The hot wire heats up with a constant temperature and the current that you must measure cools it down. The combination of hot wire and standard thermistor delivers rapid and precise measurements even at low air velocities.

- Displays air speed and air temperature simultaneously
- Automatic temperature compensation
- Telescopic probe extends up to 1 m
- ISO calibration certificate (optional)

#### Technical specifications

- **Measurement ranges**
  - Speed: 0.2 to 20 m/s
  - Temperature: 0 to +50 °C

- **Accuracy**
  - Speed: ±0.1 %
  - Temperature: ±0.8 °C

- **Power**
  - 6 1.5 V batteries

- **Enclosure**
  - ABS plastic

- **Dimensions**
  - 185 x 78 x 38 mm

- **Weight**
  - 355 g

#### Contents

- PCE-424 thermo anemometer, telescopic probe with cable, batteries, carrying case and user’s manual

#### Optional accessories

- CAL-LCA

---

### PCE-009

**Thermo-anemometer with memory, RS-232 interface and software**

This thermo-anemometer is an economical solution for measuring with high accuracy and for its multiple functions. You can also transfer data to a PC or a portable computer. It can store up to 16,000 in its internal memory.

- Measures air speed and temperature
- Air flow measurement
- Ideal for low air speeds
- Several units of measurement: m/s, km/h, ft/min, knots, miles/h
- Maximum, minimum values are displayed and Data Hold function
- Auto shut-off
- Memory to record up to 16,000 values
- RS-232 interface
- ISO calibration certificate (optional)

#### Technical specifications

- **Measurement ranges**
  - Air speed: 0.2 to 20.0 m/s
  - Air temperature: 0.0 to +50.0 °C
  - Air volume: 0 to 36,000 m³/min

- **Accuracy**
  - Air speed: ±1 %
  - Air temperature: ±0.8 °C

- **Thermocouple**
  - removable telescopic hot wire
  - normal length 280 mm
  - extended length 940 mm
  - maximum diameter 12 mm
  - minimum diameter (heat) 8 mm

- **Memory**
  - 16,000 values

- **Interface**
  - RS-232
- **Power**
  - 4 AA batteries 1.5 V

#### Contents

- PCE-009 thermo anemometer with logger and thermocouple with 1.5 m cable, RS-232 interface, software, 4 batteries, carrying case and user’s manual

#### Optional accessories

- RS232-USB
- CAL-LCA

---

### Air Flow Meters

- PCE-008
- PCE-424
- PCE-009