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Technical Data Logger PCE-009

Accurate data logger to measure air temperature and velocity with calculation of volume of air current and RS-232 interface for data transfer to a computer, software and cable is included

This data logger has a good relation between price and quality and it combines accuracy and versatility with the ability to transfer data directly to a computer. This air data logger forms a part of a professional's basic equipment to regulate and test ventilation systems. It data logger is also used in research and development projects within institutions. Its fine 8mm point makes it possible to use in areas here there is limited space to measure, such as cooling systems. When a surface area is input into the data logger, it will calculate the volume of air current in m³/min. In this way, the capacity of a ventilation can be controlled and it can be used for air conditioning and refrigeration systems. It should be taken into account that when measuring air flow, various measurements should be taken and the average used to represent the air flow reading.

- Measures air velocity and temperature
- Calculates volume of air current as well as average volume of air current
- Can be used for low air velocity
- Different units of measurement: m/s, km/h, ft/min, knots, miles/h
- Large LCD
- Easy to use
- Shows minimum and maximum value
- Save function for minimum and maximum values
- Auto shut-off function to protect battery life
- Has an RS-232 interface for data transfers to a computer
- Comes with a telescopic sensor, batteries, carrying case, software, RS-232 cable and user's manual

Technical specifications

Measurement range with corresponding unit:	
- m/s	0.2 to 20.0
- °C	0.0 to 50.0 (sensor)
Calculation of volume of air current:	
- m³/min (CCM)	0 to 36,000
Resolution	
- Air velocity	0.1m/s (for remaining units, up to ft/min = 1.0)
- Air temperature	0.1°C
- Volume of air current (CCM)	0.001 to 1m³/min (depending on reading)
Accuracy	
- Air velocity	±1% (of measurement range) or ±5% of the corresponding value
- Air temperature	±0.8°C
- Volume of air current (CCM)	calculated value
Measuring quote	From 2 sec. to 9 hours
Internal memory	16.000 values
Thermal sensor	- telescopic thermistor / hot wire sensor - contracted length 280mm - extended length 940mm - maximum diameter 12mm - minimum diameter 8mm (at the leading end)
Interface	RS-232
Software / RS-232 cable	- included, compatible with Windows 95, 98, 2000, XP, for data transfer - data can also be exported to MS Excel
Display	large 58 x 34mm LCD
Operating conditions	device: 0°C to 40°C / <80% r.h. thermal sensor: 0°C to 50°C / <80% r.h.
Power	4 batteries (1,5V) (or by way of an optional mains adaptor of 9V)
Auto shut-off	yes, 5 minutes to protect battery power
Dimensions	device: 203 x 76 x 38mm thermal sensor: 8mm diameter x 940mm maximum extended length (only 280mm when contracted)
Enclosure	ABS plastic
Weight	515g

Contents

PCE-009 data logger with thermal sensor and 1.5m connector cable, RS-232 cable, software, 4 batteries, carrying case and user's manual