ANEMOMETER (AND THERMOMETER)

HD 2303.0

Item No. 700073

Anemometer

GENERAL:

The HD-2303-0 is designed for use in air conditioning, heating, ventilation and indoor comfort applications. It uses hot-wire or impeller probes to measure air velocity, volumetric flow and temperature in ductwork and ventilation ducts. If only the temperature is to be measured, immersion, penetration, air and contact probes are available. The temperature sensor can be selected as Pt100 or Pt1000. The probes have the SICRAM module with integrated storage of the factory calibration.

TECHNICAL SPECIFICATIONS:

Device	
Dimensions:	140 x 88 x 38 mm (H x W x D)
Material:	ABS
Display:	2 x 4½ characters and symbols, display area: 52 x 42 mm
Operating conditions	
Working temperature:	-5 .. + 50 °C
Storage temperature:	-25 .. + 65 °C
Relative working moisture:	0..90 % RH., No condensate
Protection class:	IP67
power supply	
Batteries:	3 batteries 1.5 V type AA
Battery operation:	200 hours with 1,800 mAh alkaline batteries
power consumption when the device is switched off:	<20 µA
Measurement Unit:	°C - °F - m/s - km/h - ft/min - mph - knot - l/s m³/ min - m³/ h - ft³/ s - ft³/ min
connections	
Input module for the probes:	8-pole DIN45326 connector
Temperature measurement of the device	
Measuring range Pt100:	-200 .. + 650 °C
Measuring range Pt1000:	-200 .. + 650 °C
Resolution:	0.1 °C
Accuracy:	± 0.1 °C
Scope of delivery:	Device HD-2303-0, 3 x 1.5 V alkaline batteries, operating instructions, transport bag / case *The probes have to be ordered separately.*

THERMAL ANEMOMETER PROBES / IMPELLER PROBES

AP 471-S1

Item No. 700074

Anemometer probe for air speed

AP 471-S2

Item No. 700075

Anemometer probe for air speed

TECHNICAL SPECIFICATIONS:	AP-471-S1	AP-471-S2
Measurement type:	Air speed, calculated volume flow, air temperature	
Sensor type		
Speed:	NTC thermistor	Omnidirectional NTC thermistor
Temperature:	NTC thermistor	NTC thermistor
Measuring range		
Speed:	0.1..40 m/s	0.1..5 m/s
Temperature:	-25 .. + 80 °C	-25 .. + 80 °C
Measurement resolution		
Speed:	0.01 m/s - 0.1 km/h - 1 ft/min - 0.1 mph - 0.1 knot	
Temperature:	0.1 °C	
Measurement accuracy		
Speed:	± 0.2 m/s (0..0.99 m/s) ± 0.4 m/s (1.00..9.99 m/s) ± 0.8 m/s (10.00. .40.0 m/s)	± 0.2 m/s (0..0.99 m/s) ± 0.3 m/s (1.00..5.00 m/s)
Temperature:	± 0.8 °C (-10 .. + 80 °C)	± 0.8 °C (-10 .. + 80 °C)
Minimum speed:	0.1 m/s	
Air temperature compensation:	0 .. + 80 °C	
Sensor working range:	Clean air, RH <80 %	
Battery life:	approx. 20 hours @ 20 m/s with alkaline batteries	approx. 30 hours @ 5 m/s with alkaline batteries
Unit of measurement		
Speed:	m/s - km/h - ft/min - mph - knot	
Volume flow:	l/s - m³/ s - m³/ min - m³/ h - ft³/ s - ft³/ min	
Cable cross-section for volume flow calculation:	0,0001..1,9999 m²	
Cable length:	~ 2 m	
Scope of delivery:	Extendable hot-wire probe	Omnidirectional hot-wire probe

AP 472-S2

Item No. 700076

Anemometer probe for air speed, Impeller

TECHNICAL SPECIFICATIONS:	
Measurement type:	Air speed, calculated volume flow
Diameter:	60 mm
Measurement type	
Speed:	Wind wheel
Measuring range	
Speed:	0.5..20 m/s
Temperature:	-25 .. + 80 °C (*)
Resolution	
Speed:	0.01 m/s - 0.1 km/h - 1 ft/min - 0.1 mph - 0.1 knot
Accuracy	
Speed:	± (0.4 m/s + 1.5 % fs)
Minimum speed:	0.5 m/s
Unit of measurement	
Speed:	m/s - km/h - ft/min - mph - knot
Flow rate:	l/s - m³/s - m³/min - m³/h - ft³/s - ft³/min
Pipe diameter for volume flow calculation:	0,0001..1,9999 m²
Cable length:	~ 2 m
Scope of delivery:	Impeller probe

(*) The specified value refers to the working range of the impeller.