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VELOPORT 20

Air Velocity Hand-Held

Checking out air streams in HVAC systems and clean rooms with a hand-held air velocity meter can help to detect possible system failures even before they occur, preventing expensive breakdowns.
The hand-held air velocity meters of the VELOPORT Series set new standards in advanced technology and ease of control with the innovative thumbwheel. The VELOPORT measures besides air velocity the temperature of the air stream as well.
The utilized E+E thin-film air velocity sensor operates as a hot film anemometer, providing the highest accuracy even at air velocities below 0.5m/s (100ft/min).
The calibration data is stored in the very thin interchangeable probe. The small diameter of 6mm (0.2") allows measurements in difficult accessible places.
Excellent readability of the large illuminated display, the easy thumbwheel operation, and the robust housing allows the use of the VELOPORT in the most hazardous industrial environments.
An optional carrying case can accommodate the basic device with up to 2 sensing probes and an E+E factory certificate.

Typical Applications

ventilation ducts
HVAC
clean rooms

Features

measuring ranges: 0...2m/s (0...400ft/min) and 0...20m/s (0...4000ft/min)
interchangeable probes
HOLD / MIN / MAX / AVG readout
auto power off
real time clock (date / time)
m/s <-> fpm and°C <-> °F selectable
v + T recalibration by the user

Technical Data

Measuring values	Air Velocity	Temperature
Sensor type	combined E+E air velocity / temperature sensor	
Measuring range (depends on probe)	0...2m/s (0...400ft/min) 0...20m/s (0...4000ft/min)	-20...70°C (-4...158°F)
Accuracy air velocity at 23°C (73.4°F)	probe 0.08...2m/s: ±(0.04m/s / 7.9ft/min + 1% of measured value) probe 0.2...20m/s: ±(0.2m/s / 39.4 ft/min + 2% of measured value)	
Accuracy temperature at 0...50°C (32...122°F)		±0.7°C (±1.26°F)
Resolution	0.01m/s (2ft/min)	0.1°C (±0.18°F)
Response time τ_{90} 1)	<1.5s	<1.5s

General			
Supply voltage	4x 1.5V AA alkali-manganese battery		
Battery lifetime	typ. 40h		
Working temperature range	housing: 0...50°C (32...122°F)	probe: -20...70°C (-4...158°F)	
Electromagnetic compatility	EN50081-2	EN50082-2	EN55011
	EN61000-4-2	EN61000-4-3	
Housing / protection class	ABS / IP40		
Dimensions	hand-held base:	LxWxD: 145 x 85 x 37mm (5.7 x 3.3 x 1.5")	
	probe:	Ø 6mm (0.2"), length: 200mm (7.9")	
	cable length:	approx. 1m (3.3ft)	
Weight hand-held base	approx. 400g (1lbs)		
Display	illuminated LC display, 90 x 50mm (3.5 x 1.9")		

1) Response time τ_{90} is measured from the beginning of a step change of air velocity to the moment of reaching 90% of the step.

Ordering Guide

MODEL	ACCESSORIES	
Hand-held base (without probe, incl. 1m probe cable) (VELOPORT 20)	air velocity / temperature probe 0...2m/s (0...400ft/min)	(HA040401)
	air velocity / temperature probe 0...20m/s (0...4000ft/min)	(HA040402)
	Set (carrying case incl. basic device + 2 probes + accessories)	(HA040901)
	probe cable 2m	(HA010813)
	probe cable 5m	(HA010814)
	probe cable 10m	(HA010815)