

# VELOPORT 20

## Handheld Air Velocity Meter

Checking out air streams in HVAC systems and clean rooms with a handheld air velocity meter can help to detect possible system failures even before they occur, preventing expensive breakdowns.

The handheld 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 inch) 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.



### Typical Applications

ventilation ducts  
 HVAC  
 clean rooms

measuring ranges: 0...2m/s (0...400ft/min) and 0...20m/s (0...4000ft/min)

### Features

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)	0...50 degC (32...122°F)
Accuracy: probe 0...2m/s	±(0.04m/s / 7.9ft/min + 1% of measured value)	±0.7 degC (±1.26°F)
probe 0...20m/s	±(0.2m/s / 39.4 ft/min + 2% of measured value)	±0.7 degC (±1.26°F)
Resolution	0.01m/s (2ft/min)	0.1 degC (±0.18°F)
Response time $\tau_{90}$ <sup>1)</sup>	<1.5s	<1.5s

### General

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

<sup>1)</sup> Response time  $\tau_{90}$  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
Handheld base (without probe)	(VELOPORT 20)	air velocity / temperature probe 0...2m/s (0...400ft/min) (HA 040401) air velocity / temperature probe 0...20m/s (0...4000ft/min) (HA 040402)