

FIELD Environmental Instruments

Equipment Rental and Field Supplies

VelociCalc®

Model 8385
Air Velocity Meter
with Articulating Probe

"Your Needs Are Our Business"

Toll-Free
800-393-4009



The meter measures velocity and temperature, and with a few simple keystrokes the calculate flowrate, performs multi-value averaging, and determines minimum and maximum readings.

- Extended velocity range of 0 to 30 m/s
- Temperature range of -17.8 to 93.3°C
- Easy-to-read digital display
- Variable time constant modes available for a steady display when measuring fluctuating flows
- 94.0 cm telescoping probe with etched length marks to make duct traverse measurements easier
- Sampling function allows for easy recording of multiple measuring points
- Statistics function can display average, maximum and minimum values, and the number of recorded samples
- Flowrate feature allows for simple and quick calculations of volumetric flowrate when the user inputs the duct shape and size
- Optional portable printer provides a hard copy documentation of your readings
- Includes a battery check that monitors battery level to ensure accurate readings
- NIST*-traceable calibration certificate

SPECIFICATIONS

Velocity:

Range: 0 to 30 m/s (0 to 6,000 ft/min)
Accuracy^{1,2}: 3.0% of reading or ± 0.015 m/s (± 3 ft/min) whichever is greater

Temperature:

Range: -17.8 to 93.3°C (0 to 200°F)
Resolution: 0.1°C (0.1°F)
Accuracy³: ± 0.3 °C (± 0.5 °F)

Instrument Temperature Range:

Operating (Electronics): 5 to 45°C (40 to 113°F)
Operating (Probe): -17.8 to 93.3°C (0 to 200°F)
Storage: -30 to 90°C (-22 to 194°F)

Volumetric Flowrate:

Range⁴: 0.1 to 195,000 l/s, 0.0424 to 702,000 m³/hr, 0.2 to 2,700,000 ft³/min

Duct Size:

Range: 1 to 100 cm in increments of 0.5 cm, 100 to 255 cm in increments of 1 cm (1 to 100 inches in increments of 0.5 inches, 100 to 255 inches in increments of 1 inch)

Averaging Capability:

Range: Up to 255 values each of velocity, temperature

Time Constant:

Range: Adjustable from 1 to 20 seconds

Response Time:

To velocity: 200 msec
To temperature: 8 seconds

*U.S. National Institute of Standards and Technology

¹ Temperature compensated over an air temperature range of 5 to 65°C (40 to 150°F).

² The accuracy statement of 3.0% of reading or ± 3 ft (± 0.015 m/s), applies to 30 ft/min through 6,000 ft/min.

³ Accuracy with instrument case at 25°C (77°F), add uncertainty of 0.03°C/°C (0.05°F/°F) for change in instrument temperature. Add uncertainty of 0.5°C (0.9°F) for exposure to RF radiation levels of 3 V/m per IEC 801-3.

⁴ Actual range is a function of maximum velocity and duct size.

Specifications are subject to change without notice.

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