

MODELS 471B-1/473B-1/485B-1 | HANDHELD TEST INSTRUMENTS

FEATURES/BENEFITS

- Universal base handheld compatible with Dwyer AP1 thermo-anemometer, RP1 thermo-hygrometer, and VP1 100 mm thermo-anemometer wired probes (sold separately)
- High contrast and backlit LCD for visibility in any condition
- Able to store up to 99 readings for later evaluation
- Rugged aluminum case and protective soft case for easy transport

APPLICATIONS

- Residential balancing
- Commercial air balancing
- HVAC inspections
- Industrial process and dust collection system verification

DESCRIPTION

Models 471B-1/473B-1/485B-1 Handheld Test Instruments are versatile and compact units that quickly and easily measure a variety of air quality standards in imperial or metric units. **MODEL 471B-1** is provided with the Dwyer AP1 thermo-anemometer probe and is able to measure air velocity or volumetric air flow, as well as air temperature. **MODEL 473B-1** is provided with Dwyer VP1 100 mm vane thermo-anemometer probe and is able to measure air velocity or volumetric air flow, as well as air temperature and humidity. **MODEL 485B-1** is provided with Dwyer RP1 thermo-hygrometer probe and is able to measure relative humidity and air temperature.

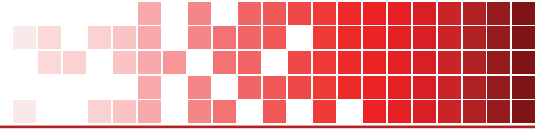
AP1, RP1, and VP1 probes are automatically recognized when plugged into the handheld, and can be interchanged without needing to adjust calibration



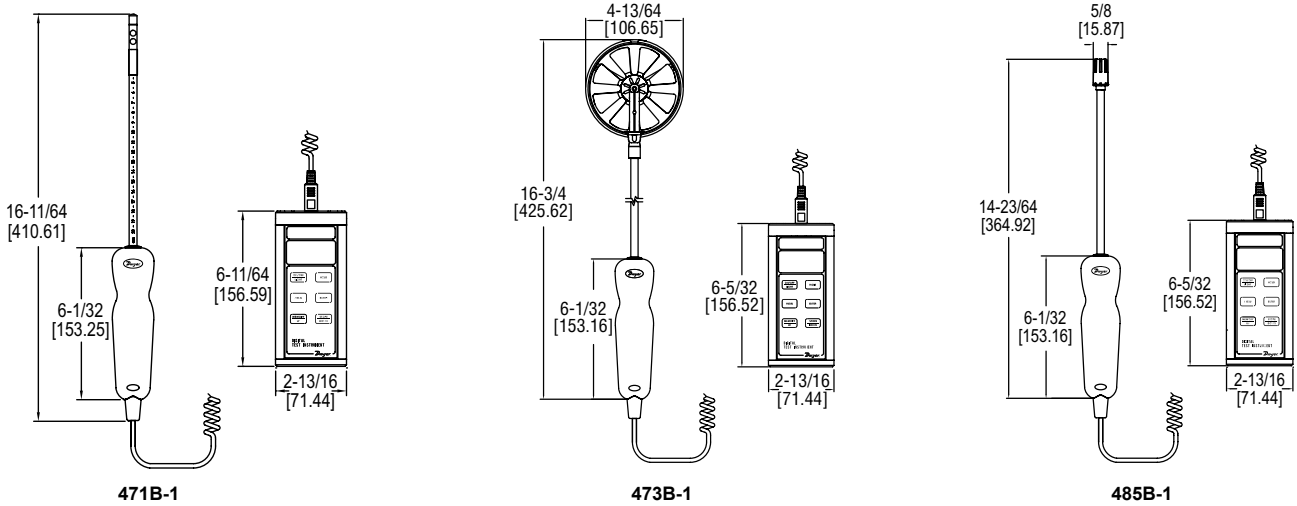
SPECIFICATIONS

Service	Dry, clean air.
Temperature Limits	Process: -20 to 212°F (-29 to 100°C); Ambient: 5 to 125°F (-15 to 51°C).
Display	4.5 digit backlit display.
Air Velocity Range	471B-1: 0 to 6000 FPM (0 to 30 m/s); 473B-1: 40 to 5000 FPM (0.32 to 25 m/s); 485B-1: N/A.
Air Velocity Accuracy	471B-1: ±3% FS; 473B-1: ±1.5% of reading ±20 FPM (±0.1 m/s) [0.25 to 10 m/s], ±1.5% of reading ±40 FPM (±0.2 m/s) [10 to 20 m/s], ±1.5% of reading ±60 FPM (±0.3 m/s) [20 to 25 m/s]; 485B-1: N/A.
Volumetric Air Flow Range	471B-1/473B-1: 19,999 in selected flow units; 485B-1: N/A.
Temperature Range	471B-1: -40 to 212°F (-40 to 100°C); 473B-1: -20 to 212°F (-29 to 100°C); 485B-1: -20 to 140°F (-28 to 60°C).
Temperature Accuracy	471B-1: ±0.5°F (±0.28°C) [32 to 122°F], ±1.5°F (±0.83°C) [Rest of range]; 473B-1/485B-1: ±0.54°F @ 77°F (±0.3°C @ 25°C).
Relative Humidity Range	471B-1: N/A; 473B-1/485B-1: 0 to 100% RH.
Relative Humidity Accuracy	471B-1: N/A; 473B-1/485B-1: ±2% RH @ 77°C (25°C) [10 to 90% RH].
Probe Length	8" (203 mm).
Cable Length	28" (71 cm) retracted; 6' (183 cm) extended.
Power Requirements	9 V alkaline battery, installed non-functional, user replaceable.
Weight	471B-1: 16 oz (454 g); 473B-1: 18.4 oz (521 g); 485B-1: 16 oz (454 g).
Agency Approvals	CE.



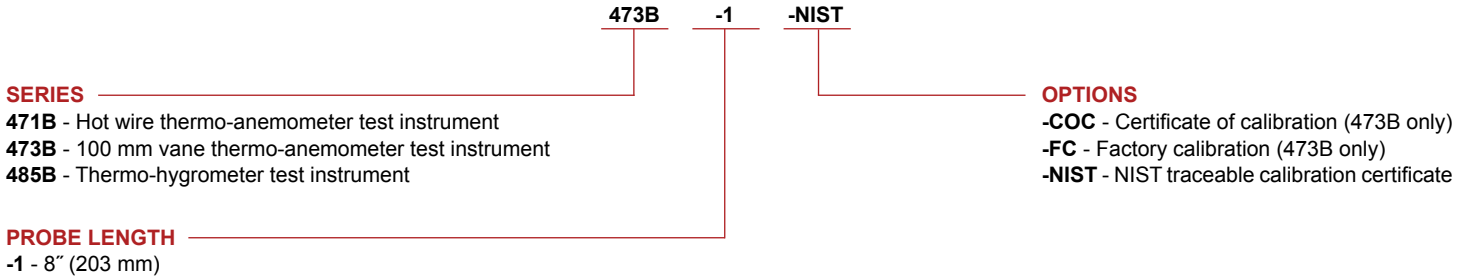


DIMENSIONS



HOW TO ORDER

Use the **bold** characters from the chart below to construct a product code.



ACCESSORIES

Model	Description
A-47X-BOOT	Protective magnetic rubber boot
A-VPX-CKIT	Vane hood kit
UHH-C1	Soft carrying case
UHH-C2	Hard carrying case
AP1	Hot wire thermo-anemometer probe with coiled cable
RP1	Thermo-hygrometer probe with coiled cable
VP1	100 mm vane thermo-anemometer probe with coiled cable

Important Notice: Dwyer Instruments, Inc. reserves the right to make changes to or discontinue any product or service identified in this publication without notice. Dwyer advises its customers to obtain the latest version of the relevant information to verify, before placing any orders, that the information being relied upon is current.

