



## 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.

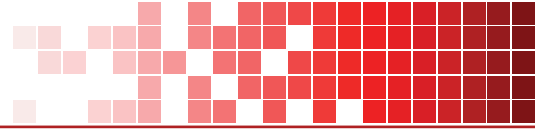
AP1, RP1, and VP1 probes are automatically recognized when plugged into the handheld, and can be interchanged without needing to adjust calibration



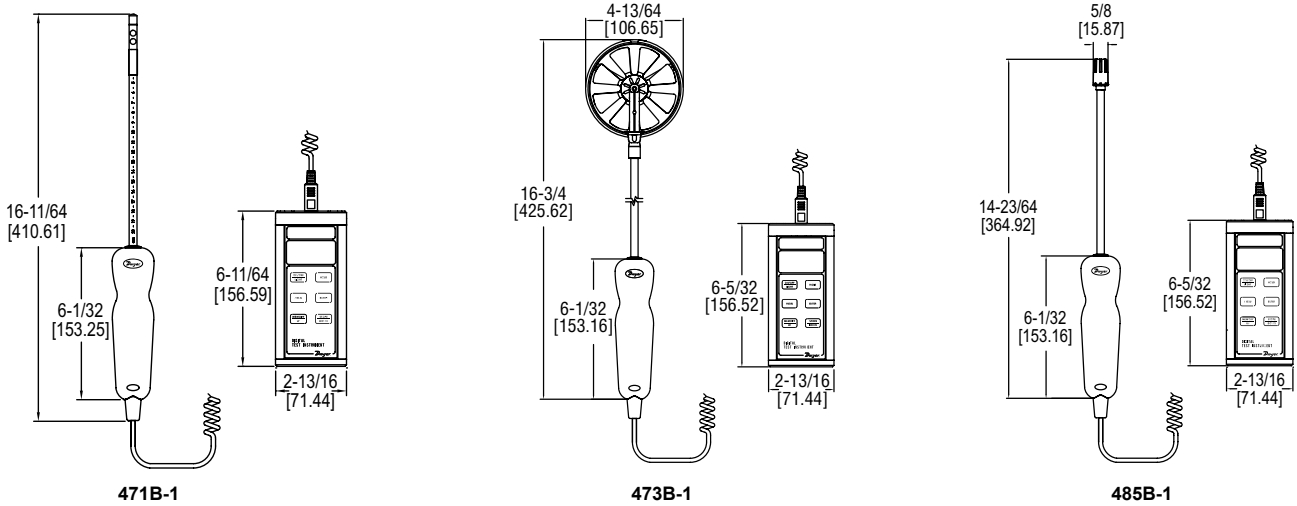
### SPECIFICATIONS

<b>Service</b>	Dry, clean air.
<b>Temperature Limits</b>	Process: -20 to 212°F (-29 to 100°C); Ambient: 5 to 125°F (-15 to 51°C).
<b>Display</b>	4.5 digit backlit display.
<b>Air Velocity Range</b>	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.
<b>Air Velocity Accuracy</b>	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.
<b>Volumetric Air Flow Range</b>	471B-1/473B-1: 19,999 in selected flow units; 485B-1: N/A.
<b>Temperature Range</b>	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).
<b>Temperature Accuracy</b>	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).
<b>Relative Humidity Range</b>	471B-1: N/A; 473B-1/485B-1: 0 to 100% RH.
<b>Relative Humidity Accuracy</b>	471B-1: N/A; 473B-1/485B-1: ±2% RH @ 77°C (25°C) [10 to 90% RH].
<b>Probe Length</b>	8" (203 mm).
<b>Cable Length</b>	28" (71 cm) retracted; 6' (183 cm) extended.
<b>Power Requirements</b>	9 V alkaline battery, installed non-functional, user replaceable.
<b>Weight</b>	471B-1: 16 oz (454 g); 473B-1: 18.4 oz (521 g); 485B-1: 16 oz (454 g).
<b>Agency Approvals</b>	CE.



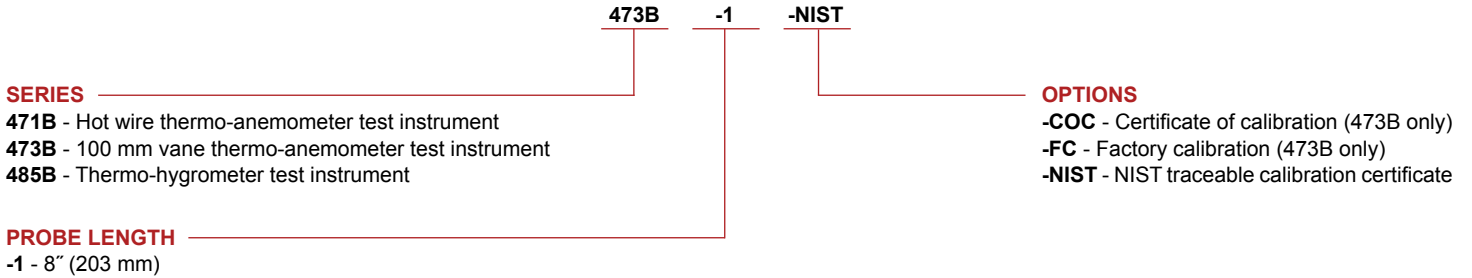


## DIMENSIONS



## HOW TO ORDER

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



## ACCESSORIES

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

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