

Rugged Handheld Environmental Meters

With Rubber Bumper and Cover for Field Engineering



Temperature Measurement

Dual Input Type K Thermocouple Thermometer
HHC201

- ✓ 0.1% Accuracy
- ✓ Fast Temperature Response
- ✓ Display T1, T2 or T1-D2 Differential
- ✓ Functions: Hold/Min/Max/Max-Min/AVG/REL
- ✓ Auto Power-Off (10 Minutes)
- ✓ Backlight with Auto-Off (15 Seconds)

Specifications

Units: °C or °F

Range: -200 to 1372°C (-328 to 2500°F)

Resolution:

0.1°: -100 to 1372°C (-148 to 2500°F) 1°: -200 to -100°C (-328 to -148°F)

Accuracy: Type K thermocouple ITS-90

±(0.1% rdg +1°C): -60 to 1372°C (-76 to 2500°F)

±(0.1% rdg +2°C): -200 to -60°C (-328 to -76°F)

Operating Temperature: 0 to 50°C (32 to 122°F)

Power: 2 "AAA" batteries (included)

Battery Life: 250 hours typical with alkaline batteries

Dimensions: 24.7 x 50.9 x 132.9 mm (0.98 x 2.0 x 5.2")

Weight: 148 g (5.2 oz)

Comes complete with batteries, carrying strap, protection cap, and thermocouple.



HHC201 shown smaller than actual size.

Infrared Thermometer

HHC210

- ✓ Laser Sighting
- ✓ Field of View 6:1
- ✓ Adjustable Emissivity 0.1 to 1.00
- ✓ Display IR Temperature, Ambient Temperature and IR-Ambient Differential Temperature
- ✓ Functions: Hold/Min/Max/Max-Min/AVG
- ✓ Auto Power-Off (10 Minutes)
- ✓ Backlight with Auto-Off (15 Seconds)

Specifications

Units: °C or °F

Infrared Temperature:

FOV: 100 mm (4") @ 600 mm (24")

Range: -30 to 550°C (-22 to 1022°F)

Resolution: 0.1°

Accuracy:

±2°C: -30 to 100°C (-22 to 212°F)

±2% rdg: 101 to 550°C (214 to 1022°F)

Air Temperature:

Range: -20 to 60°C (-4 to 140°F)



Accuracy:

±0.5°C: 0 to 45°C (32 to 116°F)

±1°C: -20 to 0°C (-4 to 32°F);

45 to 60°C (116 to 140°F)

Operating Temperature: 0 to 50°C (32 to 122°F)

Power: 2 "AAA" batteries (included)

Battery Life: 40 hour with laser typical with alkaline batteries

Dimensions: 24.7 x 50.9 x 132.9 mm (0.98 x 2.0 x 5.2")

Weight: 148 g (5.2 oz)

Comes complete with batteries, carrying strap, and protection cap.

HHC210 shown smaller than actual size.





Pressure Measurement



HHC280 shown smaller than actual size.

Differential Manometer

HHC280

- ✓ 0 to 40 inH₂O/0 to 100 hPa
- ✓ HVAC System Troubleshooting
- ✓ Gas Pressure Measurements
- ✓ Compliant for Pitot Tubes for Measuring Air Velocity
- ✓ Dual Inputs P1 and P2
- ✓ Functions: Hold/Min/Max/Max-Min/AVG
- ✓ Auto Power-Off (10 Minutes)
- ✓ Backlight with Auto-Off (15 Seconds)

Specifications

Eight Selectable Units: mmH₂O, mmHg, psi, inH₂O, inHg, hPa, mbar, Pa, plus m/s and fmp (for air velocity)

Range: 0 to 100 hPa/0 to 1019.7 mmH₂O

Resolution: 0.1 hPa/0.1 mmH₂O

Accuracy: ±0.03 hPa (0 to 0.30 hPa)
 ±0.05 hPa (0.31 to 1.00 hPa)
 ±0.1 hPa + 1.5% or rdg (rest of range)
 ±0.3 mmH₂O (0 to 3.0 mmH₂O)
 ±0.5 mmH₂O (3.1 to 10.2 mmH₂O)
 ±1.02 mmH₂O + 1.5% of rdg (rest of range)

Operating Temperature: 0 to 50°C (32 to 122°F)

Power: 2 "AAA" batteries (included)

Battery Life: 85 hours typical with alkaline batteries

Dimensions: 24.7 x 50.9 x 132.9 mm (0.98 x 2.0 x 5.2")

Weight: 113 g (4.0 oz)

Comes complete with batteries, carrying strap, and protection cap.



HHC281 shown smaller than actual size.

Absolute Pressure Meter

HHC281

- ✓ High Accuracy Absolute Pressure Measurement
- ✓ Barometric and Altitude Measurement
- ✓ Calculation of Barometric Pressure
- ✓ Functions: Hold/Min/Max/Max-Min/AVG
- ✓ Auto Power-Off (10 Minutes)
- ✓ Backlight with Auto-Off (15 Seconds)

Specifications

Eight Selectable Units: hPa, mbar, Pa, mmH₂O, mmHg, inH₂O, inHg, psi, plus m and ft (for altitude)

Range: 300 to 1200 hPa

Resolution: 0.1 hPa

Accuracy: ±3 hPa

Operating Temperature: 0 to 50°C (32 to 122°F)

Power: 2 "AAA" batteries (included)

Battery Life: 600 hours typical with alkaline batteries

Dimensions: 24.7 x 50.9 x 132.9 mm (0.98 x 2.0 x 5.2")

Weight: 120 g (4.2 oz)

Comes complete with batteries, carrying strap, and protection cap.

Unit	Range	Resolution
mmH ₂ O	0 to 1019.7	0.1
mmHg	0 to 75.00	0.01
psi	0 to 1.450	0.001
inH ₂ O	0 to 40.14	0.01
inHg	0 to 29.53	0.001
hPa	0 to 100.00	0.01
mbar	0 to 100.00	0.01
Pa	0 to 10000	1
FPM	*	1
m/s	*	0.1

RPM/Light Measurement



Light Meter

HHC230



- ✓ Measures Light Intensity
- ✓ Wide Measuring Range 0 to 200,000 lux
- ✓ Spectral Response $f < 8\%$
- ✓ Based on CIE Standard Illuminant A (2856K)
- ✓ Functions: Hold/Min/Max/Max-Min/AVG
- ✓ Auto Power Off (10 Minutes)
- ✓ Backlight with Auto-Off (15 Seconds)

Specifications

Range: 0 to 200,000 lux; 0 to 18,580 fc

Accuracy: $\pm 3\%$ rdg + 10 digits (based on a light source 2856K)

Resolution: 1 lux (0 to 19999), 10 lux (20,000 to 200,000), 1 fc (0 to 18,580)

Units: lux/fc

Operating Temperature: 0 to 50°C (32 to 122°F)

Typical Light Intensity Ranges (lux):

Design/General Office: 1500 to 2000

Meeting Room: 300 to 750

Precision Assembly: 1500 to 3000

R&D Department: 750 to 1500

Packing/Measurement/Hallway: 300 to 750

Power: 2 "AAA" batteries (included)

Battery Life: 180 hours typical with alkaline batteries

Dimensions: 24.7 x 50.9 x 132.9 mm (0.98 x 2.0 x 5.2")

Weight: 116 g (4.0 oz)

Comes complete with batteries, carrying strap, and protection cap.



HHC230 shown smaller than actual size.

RPM Meter

HHC250

- ✓ Non-Contact Optical RPM Measurement
- ✓ Wide Measuring Range up to 99999 rpm with LED Spot Marking and Reflective Tape on Object
- ✓ Measuring Range Up to 40 cm (15.7") (Depending on Ambient Light)
- ✓ Functions: Hold/Min/Max/Max-Min/AVG
- ✓ Auto Power-Off (10 Minutes)
- ✓ Backlight with Auto-Off (15 Seconds)



Specifications

Range: 100.0 to 99999

Accuracy: $\pm 0.02\%$ of rdg + 1 digit

Resolution:

0.1 rpm: 100.1 to 19999.9 rpm

0.1 rps: 1.7 to 333.3 rps

1 rpm: 20,000 to 99,999

1 rps: 334 to 1666 rps

Units: rpm/rps

Operating Temperature: 0 to 50°C (32 to 122°F)

Power: 2 "AAA" batteries (included)

Battery Life: 30 hours typical with alkaline batteries

Dimensions: 24.7 x 50.9 x 132.9 mm (0.98 x 2.0 x 5.2")

Weight: 110 g (3.9 oz)

Comes complete with batteries, carrying strap, protection cap, and reflective tape (5 each).



HHC250 shown smaller than actual size.



Air Flow/Humidity/Dew Point/Wet Bulb

Hygro-Anemometer

HHC261

- ✓ 0.4 to 20 m/s (80 to 4000 ft/min)
- ✓ High Accuracy Air Flow Measurement
- ✓ Built-In Ambient Temperature Measurement
- ✓ Wind Chill Temperature (WCT) Indicator
- ✓ Integrated Flow Vane
- ✓ Humidity with Dew Point and Wet Bulb
- ✓ Functions: Hold/Min/Max/Max-Min/AVG
- ✓ Auto Power-Off (10 Minutes)
- ✓ Backlight with Auto-Off (15 Seconds)



HHC261 shown smaller than actual size.

Specifications

Air Velocity:

Range: 0.4 to 20 m/s (80 to 4000 ft/min)
Accuracy: ± 0.2 m/s + 2% of rdg; ± 0.40 ft/min + 2% of rdg
Resolution: 0.1 m/s, 1 ft/min
Units: beau, m/s, ft/m, mph, km/h, WCT, kts

Air Temperature:

Range: -20 to 60°C (-4 to 140°F)
Accuracy:
 $\pm 0.5^\circ\text{C}$: 0 to 45°C (32 to 113°F)
 $\pm 1^\circ\text{C}$: -20 to 0°C and 45 to 60°C (-4 to 32°F) and (113 to 140°F)
Resolution: 0.1°C/°F

Humidity:

Range: 0 to 100% RH
Accuracy:
 $\pm 2.5\%$: 10 to 90% RH
 $\pm 5\%$: 0 to 10% RH and 90 to 100% RH

Operating Temperature: 0 to 50°C (32 to 122°F)

Power: 2 "AAA" batteries (included)

Battery Life: 50 hours typical with alkaline batteries

Dimensions: 24.7 x 50.9 x 132.9 mm (0.98 x 2.0 x 5.2")

Weight: 119 g (4.2 oz)

Comes complete with batteries, carrying strap, and protection cap.

All Models Include Slip-Off Hard Cover Shell

HHC201 shown closed with included cover.



HHC201 shown with included cover.

