

**Introduction**

Thank you for selecting the Extech Model AN25 Hygro Thermo-Anemometer. Please visit our website ([www.extech.com](http://www.extech.com)) to check the latest version of this User Guide or to contact Customer Care.

**Operation**

**Switching the Meter ON/OFF**

- Press the POWER button to switch the meter ON.
- Press and hold POWER for approx. 3 seconds to switch OFF.
- The meter's Auto Power OFF feature turns the meter OFF after 15 minutes of inactivity.

**Changing the Air Velocity Units**

With the meter in flow measurement mode, press HOLD for approx. 30 seconds to change air flow units from m/s, MPH, M/H, FPM, FPM, FPM, and then back to m/s. See specifications for unit definitions.

**Change Modes and Temperature Units**

- Press MODE button to select the desired mode: WIND (wind-chill), TEMP (heat index), DP (dew point), WB (wet bulb), WBGT (wet bulb), and back to m/s.
- From any temperature mode, press the HOLD button to change temperature units (C/F).

**MAX AVG Mode**

- With the meter ON, press the POWER button. The MAX icon will display on the LCD with the highest (maximum) reading.
- Press POWER again. The AVG (average) icon will display on the LCD.
- Press the POWER button to step through the averaging time selections (3sec, 10sec, and 0.13sec). After selecting the averaging time, the meter will begin averaging readings.
- To exit the MAX AVG mode, repeatedly press the POWER button until MAX and AVG icons switch OFF.

**Data Hold**

- Press the HOLD button to freeze the displayed reading. The HOLD icon will appear on the display.
- Press HOLD button again to return to normal operating mode.

**Auto Power OFF**

- The meter will power OFF after about 15 minutes of inactivity.
- To disable Auto Power OFF with the meter switched OFF, press the HOLD and POWER buttons until the meter switches ON.
- The icon on the LCD displayed on the LCD and the meter will return to normal operating mode.
- Now the meter will not switch OFF until the user manually switches OFF. Note that on the next cycle of power, the meter will revert to the Auto Power OFF mode.

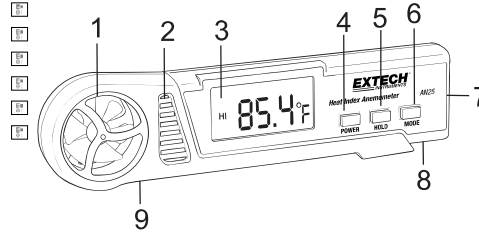
**Error Messages**

E1: Sensor not replaced (it). E2: Measurement unit change.

Important Note: The meter is located near sources of electricity. The electrical signal may affect the meter's displayed reading.

**Meter Description**

- Vane Impeller
- Relative Humidity & Temperature Sensors
- LCD Display
- POWER button
- HOLD button
- MODE button
- Battery Compartment (on Rear)
- Tripod Mounting Hole
- Impeller Set Screw (on Side)



**Specifications**

Measurements	Range	Resolution	Accuracy
m/s (meters per second)	0.40 to 30.0 m/s	0.1 m/s	±3% F.S.
FPM (feet per minute)	80 to 5900 min	0.1 fpm	±3% F.S.
	1000 to 9220 min	1 min	
KMH (kilometers per hour)	0.4 to 130.0 km/hr	0.1 km/hr	±3% F.S.
M/H (miles per hour)	0.9 to 83.9 mph	0.1 mph	±3% F.S.
BFT (baufort)	0 to 10	1 BFT	±1 BFT
KNT (knots)	0.8 to 60.6 knots	0.1 knots	±3% F.S.
Temp./WIND (wind-chill)	-15 to 50°C (5 to 132°F)	0.1°C (0.2°F)	±0.3°C (0.5°F)
RH (Relative Humidity)	5 to 99% RH	0.1% RH	±0.3% RH
WB (Wet Bulb)	-15 to 50°C (5 to 132°F)	0.1°C (0.2°F)	Calculation
DP (Dew Point)	-75 to 50°C (-103 to 132°F)	0.1°C (0.2°F)	
HI (Heat Index)	35 to 205°C (93 to 401°F)	0.1°C (0.2°F)	
WBGT (Wet Bulb Globe)	-29 to 60°C (-20 to 130°F)	0.1°C (0.2°F)	

\* @25°C (77°F) otherwise ±3% F.S.

**General Specifications**

Display	28 x 44 mm (1.1 x 1.75") LCD with 8 battery multifunction indicators
Max/Avg/Hold Modes	Max shows highest reading, AVG averages readings, Data Hold freezes display
Operating Conditions	0 to 50°C (32 to 122°F) / 0 to 95% RH
Power Supply	Lithium Battery (CR2032 or equivalent)
Dimensions/weight	152 x 70 x 38 mm (5.98 x 2.76 x 1.50") / 80g (2.83oz)

**Battery Replacement**

The meter has a low battery indicator (BAT). Important: Turn the meter off before opening the battery compartment. Using a coin, turn the battery compartment cover COUNTER-CLOCKWISE to move it. Once opened, observe the position of the battery, placing the new one in the same position. Secure the battery compartment cover and dispose of the lithium battery in accordance with local, state, or national disposal codes.



Never dispose of used batteries or rechargeable batteries in household waste. As consumers, users are legally required to take used batteries to appropriate collection sites, the retailer where the batteries were purchased, and wherever batteries are sold.

Disposal: Do not dispose of instrument in household waste. The user is obligated to take end-of-life devices to a designated collection point for the disposal of electrical and electronic equipment.

**Impeller Replacement**

The replacement part number for the impeller for the AN25-V (two impellers supplied) is 20-020. To remove the impeller set screw, and then to mount back the meter, turn the impeller counter-clockwise to remove. Insert the impeller and turn clockwise to lock it. Insert and tighten the impeller set screw to complete the replacement.

Support Lines: US (877) 239-8324; International: (800) 224-7800  
 Technical Support: Option 2; Email: [support@extech.com](mailto:support@extech.com)  
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