



Psyclone™

Protimeter Thermo-Hygrometer



Key Benefits

- Fast response saves time when making multiple measurements in changing environments
- High accuracy across range provides reliable measurements in changing environmental conditions
- Long lasting calibration reduces downtime and maintenance costs
- Multiple automatic psychrometric calculations eliminate tedious chart lookups, saving time and reducing errors
- Quick intuitive interface simplifies operation
- Large backlit LCD display for easy viewing
- Durable design with rubberized grip protects against shock and provides easy handling
- Two-year limited warranty

Applications

The Protimeter Psyclone is a highly durable and functional hand held thermo-hygrometer designed to measure relative humidity and temperature in a wide range of environments and applications.

- Disaster restoration
- Indoor air quality
- HVAC—efficiency monitoring
- Environmental monitoring

Amphenol
Advanced Sensors

Fast Response for a Variety of Measurements

When measuring humidity and temperature in a range of different environments, it is essential that you have an instrument that responds quickly to those changes. The Psychlone thermo-hygrometer not only responds quickly, it also measures a variety of parameters:

- Percent relative humidity (% RH)
- Temperature (°F or °C)
- Grains per pound (GPP)
- Gram/kilograms (g/kg)
- Dew point temperature (°F or °C)
- British thermal units/pound (BTU/lb)
- Wet bulb temperature (°F or °C)
- Parts per million by weight (ppmw)
- Kilocalorie/kilogram (Kcal/kg)
- Surface temperature (°F or °C)
- Surface proximity to dew point (°F or °C)



Rear view of the Psychlone shows a convenient belt clip and wall hanging mount

Flood Damage Restoration

Accurately measuring the atmospheric conditions during building dry down is key to ensuring drying equipment is used efficiently. Psychlone rapidly responds to changes in humidity and temperature while calculating the specific humidity readings to reduce errors and save time. During hot air drying, Psychlone also calculates enthalpy to maximize equipment performance.

Building Surveys

Psychlone is ideal for condensation risk assessment and diagnosis applications. Using the optional surface temperature sensor, the meter can display actual surface temperature and dew point temperatures. This feature helps determine whether a moist surface is due to condensation or other sources. For example, negative temperature differences confirm condensation, whereas positive differences confirm condensation is not occurring

HVAC/R System Validation

Psychlone is specifically designed with time saving features for the HVAC technician or building maintenance professional concerned with HVAC performance validation. Using the percent relative humidity (% RH) and temperature measurements as inputs, Psychlone calculates the necessary derived psychometric parameters, such as enthalpy, dew point, and wet bulb temperatures needed to assess and troubleshoot the performance and energy efficiency of any HVAC system.

Psyclone Specifications

Power

2 x AA 1.5 V batteries

Enclosure Material

Polycarbonate with silicone rubber boot

Dimensions

6.5 in x 2.5 in x 1.2 in (165 mm x 65 mm x 30 mm)

Weight

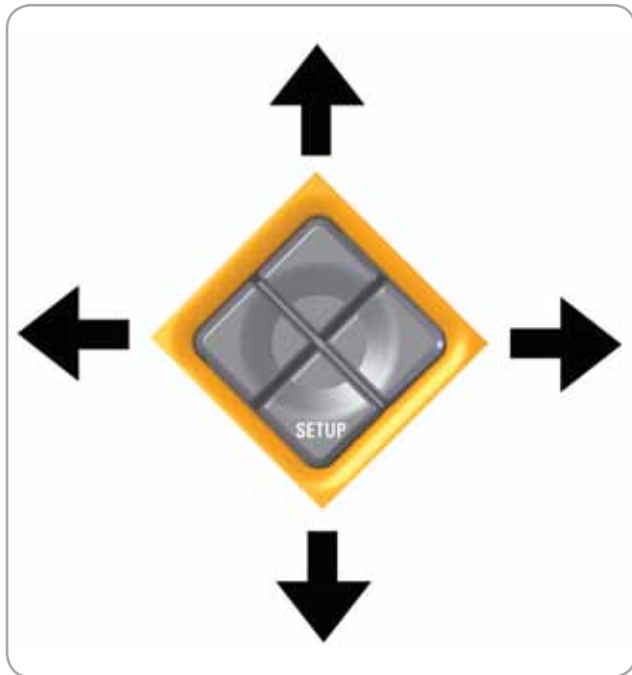
7 oz (200 g)

Display

Outputs measurements in °F or °C, user-selectable

Front Panel Keys

Rubber function keys



Easy-to-use four-button keypad

Probe Humidity Measurement Range

1.0 - 99.0% (non condensing)

Humidity Precision

± 2% (10% to 90% @ 25°C/77°F)

Operating Temperature Range

32°F to 122°F (0°C to 50°C)

Probe Temperature Measurement Range

-4°F to 185°F (-20°C to 85°C)

Temperature Accuracy

± 0.5°C (32°F to 122°F or 0°C to 50°C)

Sensor Calibration

The sensor is calibrated using dedicated equipment that is calibrated according to ISO 17025 and calibration by comparison against standards that are traceable to NIST and NPL.

Certifications

CE

RoHS compliance

Warranty

Two-year limited warranty

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www.amphenol-sensors.com

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