Handheld Relative Humidity and Dew/Frost Point Hygrometer

The Edgetech Instruments Model 645 offers the new modular system approach allowing you to purchase the instrument that currently meets your requirements yet upgrade at a later time to meet your future measuring needs. Its modular design allows easy upgrades to the instrument. You will always have a measuring instrument corresponding to the latest technology.

The Model 645 incorporates a 1% maintenance free humidity probe ideal for checking humidity measurements for validation of critical environments. The hygrometer is rugged, compact and protected by a waterproof plastic housing. The humidity measuring range is 0 to 100% RH with an accuracy of $\pm 1\%$ RH over the range of 10-90%, $\pm 2\%$ over the remaining range. The accuracy of this probe has been tested and proven time and again in worldwide laboratory tests. The probe is equipped with a patented RH sensor.

Edgetech Instruments' services are performed in the USA at their modern, well-staffed, ISO/IEC 17025:2005 accredited, ISO 9001:2015 registered manufacturing facility. All recertifications and calibrations are traceable to NIST.

Different Model 645 humidity and dew point probes are available for industrial applications:

- Humidity measurements at up to180°C in drying systems.
- Precise dew/frost point probes with quick disconnect.
- Recognizes condensate thus preventing damage to the compressed air system.
- Measures equilibrium moisture (e.g. in bulky material).

Features:

- Highest precision ±1% RH
- Housing with LED display
- Internal data memory
- Convenient data analysis
- Extensive probe range
- Displays these parameters at the touch of a button: Temperature

Relative Humidity Absolute Humidity Dew/Frost Point

Enthalpy



The Model 645



The Model 645 Sensor



ISO/IEC 17025:2005 Accredited

HUMIDITY

Measuring Range:

• 0 to 100% RH

Resolution:

• 0.1 % RH

System Accuracy:

• ±1%, 10 - 90% RH, ±2% remaining range

DEW/FROST POINT

Accuracy:

± 2.0°C (3.6°F) at -20°C (-4°F), nominal

TEMPERATURE

Measuring Range:

-50 to 150°C (-58 to 302°F)

Response Time:

<12 seconds @ 400 fpm

Resolution:

• 0.1°C

Accuracy of Instrument:

- ± 0.2°C (.36°F) -25 to 75°C, (-13 to 167°F)
- ± 0.4°C (.72°F) remaining range •

System Accuracy:

Up to ±0.23°C

GENERAL

Typical Battery Life:

• 9V PP3 (Al-Mn). 20-45hr

Weight:

• 0.56lb. (255 g) including battery

Storage/Transport Temperature:

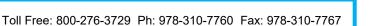
-20°C to 70°C (-4°F to 158°F)

Housing:

ABS

Operating Temperature:

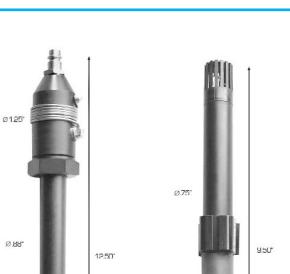
• 0°C to 50°C (32°F to 122°F)



Rev. v2

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Model 645 Probes

Ø.88"

Edgetech Instruments

ISO 9001:2015 Registered ISO/IEC 17025:2005 Accredited

