

TEMPERATURE / HUMIDITY RECORDER

- 1% temperature 2 or 3% rH
- 1/7/31 day switchable
- Self Contained
- Traceable certification available

DESIGN AND FUNCTION

Use our thermohygrographs when ever you need a record of humidity and temperature conditions. Just put them in place and start recording, no connections, not even a power cord. That's faster, easier and likely less expensive than electronic instrumentation and data loggers.

Because we can supply them with traceable humidity and temperature certification and these recorders are easily transported to our Toronto plant for re-certification they may be ideal to meet your QA requirements. Applications include laboratories, clean rooms, museums, libraries, warehouses, environmental chambers and humidity sensitive production areas.

The sensing elements are located inside a sturdy housing, well protected from mechanical damage. Since the transmission mechanism has minimal friction and is insensitive to shocks and temperature changes, correct readings of atmospheric conditions are guaranteed.

An aged circular bimetal is used to guarantee precise temperature measurement. The radius change of this bimetal with temperature is transmitted through a lever system to the recording pen.

The humidity sensor is a "harp" of human hair, "H", or proprietary plastic fibres, "K", whose length changes with humidity. The changing length is transmitted through a lever system to the recording pen. "K" elements are maintenance free and give 3% accuracy. "H" elements require weekly excursions to 95% to give 2% accuracy.

INDOOR VERSION

The chart drive is powered by a single pen light battery which will operate continuously for up to 12 months. Quartz tuning keeps chart rotation constant even if the battery is weak. A switch on the drum provides a selection of 1, 7 or 31 day rotation.

ORDER NO: 1.0665.02.014

Recording Time: 1/7/31 day switchable
Humidity Element: "K" (0-100% rH)
Temperature range: 0-40 degrees C
Accuracy: 3% rH / 1% temperature
Chart width: 2x82 mm
Divisions: 5% rH, 0.5 degree C
Dimensions: 280 x 140 x 260 mm

OUTDOOR VERSION

The chart drive is powered by an 8 day clockwork mechanism. The clockwork functions well down to minus 35 degrees Celsius, a temperature not yet possible with quartz drives. Human hair bundles in a harp arrangement sense humidity with 2% accuracy.

ORDER NO: 1.0640.00.000

Recording Time: 7 day
Humidity Element: "H" (0-100% rH)
Temperature range: -35...+45 degrees C
Accuracy: 2% rH / 1% temperature
Chart width: 2x82 mm
Divisions: 5% rH, 1 degree C
Dimensions: 280 x 140 x 260 mm



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ENERCOP

instruments ltd

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