TEMPRECORD™

www.temprecord.com

HUMIDITY & TEMPERATURE - Multi Use

- Durable, Reliable & Tamper Proof - Temperature and Humidity recording where product life and product integrity are critical!
- Applications – Monitoring of RH and/or temperature sensitive products or equipment in storage, laboratories, production processes or transit. Uses include analysis of weight loss due to inadequate RH environment. Weight loss during storage means loss in product value. Applications also include monitoring of process/manufacture environments, HVAC systems within multi-level buildings or labs.
- 32K non-volatile memory (16K Temperature and 16K Relative Humidity)
- Calibrated temperature range is accurate to 0.2°C / 0.35°F and Relative Humidity to 3% RH (Logger Case temperature range is -25°C to +60°C or -13°F to +140°F)
- 3-Point Temperature and 2-Point RH Calibration built into logger:
  - superior accuracy guarantee
  - no need for corrections or complex calculations to be applied to downloaded data
  - avoids human data entry errors, providing data integrity and peace of mind
- Calibrated and corrected at 5-Points to ISO/IEC 17025 Calibration Laboratory Standards
  - traceable Calibration Certificate included
- Temperature Units: °C or °F and % RH
- Display Resolution: 0.01°C or 0.01°F or 0.1% RH
- TRW software:
  - Hi-speed download
  - Serial RS-232 or USB connectivity
  - compatible with Windows 7, 8 and 10
- Compliance made easy with automated PDF report generation. Use speed-buttons from TRW software to:
  - save as *.TR and/or *.PDF files
  - export to MS Excel – part or all samples
  - email
  - print
- Save time with Auto Mode (for batch programming):
  - Start / Stop / Status display
  - download/read recorded data
  - save downloaded file as *.TR or *.PDF
  - print file
  - email file
  - reuse logger
- Fully welded food grade plastic case
  - FDA approved
  - recyclable
- Case protection rating: splashproof to IP56 or NEMA 4X

TEMPRECORD 3 Point Calibration

RH MULTI USE DATA LOGGER

Temperature and Relative Humidity

Temprecord RH data loggers record temperature and Relative Humidity data simultaneously. User configuration allows recording of just temperature, just RH, or both. RH recordings are temperature compensated within the RH sensor for higher accuracy and stability.

Accuracy & Traceability

RH data loggers go through a 3-Point temperature and 2-Point RH calibration and correction process during manufacturing. The corrections are then applied to each logger. Traceable Calibration Certificates are included with each logger from our ISO/IEC 17025 accredited laboratory. PDF copies of Calibration Certificates are also downloadable from the web site link: www.temprecord.com/certificates.html

32K Non-volatile EEPROM Memory

The RH Multi Use data logger supports 32K of memory (32,511 samples). Prolonged multi-recording and data integrity are assured with premium quality EEPROM. User-configurable sample period provides from 16 hours up to 2 years of RH data recordings.

LED Status Indicators

'Within limits' (Green) LED Indicator and **'Out of limits'** (Red) LED Indicator allow instant confirmation of recorded data being within or outside of specified upper and lower temperature range.

Push Button Start/Stop or Mark

The Push Button (when enabled) allows User to **'Start'** or **'Stop'** the data logger anywhere without needing sophisticated software or hardware in the field. During recording, indication **'Markers'** can be included for future reference by pressing the button for two seconds until the red LED flashes two times. If button disabled then the logger can be started or stopped using Temprecord for Windows (TRW) software – available FREE!

RH Sensor Dust Covers Available

A dust cover is included with every RH Logger for extended reliability and protection from harsh environments.

Case Protection Rating
Splashproof to IP56 or NEMA 4X rated. Ultrasonically welded plastic case is durable in extreme conditions. FDA approved food grade casing.

RH Sensor
The humidity sensor is situated in a ventilated area of the Logger that is sealed from internal electronics.

LED Status Indicators
The **'Out of limits'** (Red) LED Indicator and **'Within limits'** (Green) LED Indicator allow instant confirmation of recorded data being within the specified temperature range. Software setup allows the selection of range limits and the number of samples out of range to activate the alarm feature.

Push Button
Integrated Push Button feature allows User to **'Start'** or **'Stop'** data logger in the field. Also allows for the setting of indication **'Markers'** during data recording for future reference. Functionality of the Push Button can be enabled or disabled through TRW software.

Retaining Hole
Fully moulded and ultrasonically welded retaining hole for easy securing of the data logger within different environments.

Parameter	Specifications
Model	**RH – Relative Humidity – Multi Use RH and Temperature Data Logger**
Memory	32K Non-volatile
Sample Capacity	32,000 samples per use 16,000 RH and 16,000 temperature samples
Sample Period	Programmable between 2 seconds and 36 hours in 2 second increments
Start Delay	Programmable between 10 seconds and 36 hours
Start and Stop	Logger Button (if enabled), Palm PDA/Reader, TRW Software/Reader
Recording Duration	16 hours to 2 years (RH only) 8 hours to 2 years RH & Temperature
Operating Temperature Range of Case	-25˚C ~ +60˚C, -13˚F ~ +140˚F
Operating Temperature Range of Data Logger	-25˚C ~ +60˚C, -13˚F ~ +140˚F
Temperature Accuracy	0.2˚C / 0.35˚F over the range -20˚C / -4˚F to +50˚C / +122˚F
Display Resolution	0.01˚C or 0.01˚F Temperature, 0.1% RH
Humidity Range	0.00% to 100% RH
Humidity Sensor Accuracy	3% RH from 12 to 80% RH. Otherwise 4% RH from 0 to 12% and 80% to 100% RH
Within Limits Indicator	One flash from Green LED Indicator every 10 seconds
Out of Limits Indicator	One flash from Red LED Indicator every 10 seconds
Battery Type	Lithium Thionyl Chloride (3.6V)
Dimensions	129 x 73.5 x 14mm or $5^{1/8}$ x $2^{7/8}$ x $^{5/8}$ inches
Weight	83g or 2.92oz
Case Colour	White (Beige)
Case and Protection Rating	Splashproof to IP56 or Nema 4X. FDA approved food grade casing
Warranty Period	12 months on data logger from date of purchase 12 months on battery

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*Accuracy is calibrated with a traceable reference thermometer to 0.2˚C (0.35˚F) at temperatures -15˚C, 0˚C and +40˚C. Humidity is calibrated to 3% at 30 and 65%.

60 50 40 30 20 10 0 -10 -20 -30 °C