RHTEMP1000IS
INTRINSICALLY SAFE HUMIDITY & TEMPERATURE DATA LOGGER
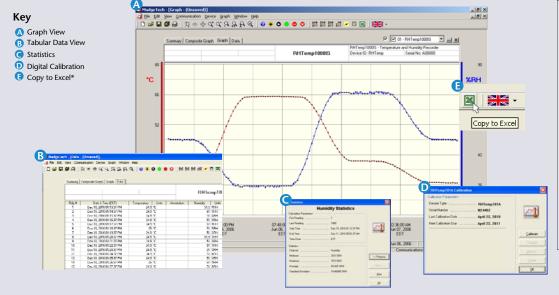
MADGE TECH
WE BUILD DATA LOGGERS

The new RHTemp1000IS is an Intrinsically Safe humidity and temperature data logger. The RHTemp1000IS is FM Approvals certified as Intrinsically Safe for Class 1, Division 1, groups A, B, C, and D and non-incendive for Class 1, Division 2 groups A, B, C, D and hazardous environments. This certification makes the device ideal for EtO Sterilization, environmental studies, and numerous other hostile environment applications.

One of the enhancements to the RHTemp1000IS is the stainless steel enclosure with engraved serial number and device name . The device interfaces with the IFC400 (sold separately) docking station and can be placed directly into the dock for full communications. No more removal of end-caps to download data! The small size of the RHTemp1000IS, allows it to be placed in remote or hard to reach locations. The device now features a battery life indicator allowing users to easily identify low voltage and change batteries when required. This feature maximizes the use of your battery life and is a cost saving efficiency. The RHTemp1000IS can hold up 16,350 humidity and temperature measurements. Its real time clock ensures that all the data is time and date stamped.

The MadgeTech Software is a powerful, analytic tool, available to download for free from our website www.madgetech.com. Data can be viewed in graphical or tabular formats and summary and statistics views are available for further analysis.

Features

- Software Battery Life Indicator
- Intrinsically Safe Certified
- 316 Stainless Steel Enclosure
- Small, Sleek Design
- Fast Response Time
- Engraved Label
- NIST Traceable
- CE Compliant

Benefits

- Faster Downloads (1 min. full memory)
- Docking Station Communication
- Easily Identify Low Battery Voltage

Applications

- EtO Sterilization
- Environmental Studies
- Hostile Environment Monitoring
- Medical & Pharmaceutical

MADGETECH DATA LOGGER SOFTWARE

Key

- A Graph View
- B Tabular Data View
- C Statistics
- D Digital Calibration
- E Copy to Excel®

Software Features:

- Multiple Graph Overlay
- Statistics
- Digital Calibration
- Zoom in/ Zoom out
- Lethality Equations (F_0, PU)
- Mean Kinetic Temperature
- Full Time Zone Support
- Data Annotation
- Min./Max./Average Lines
- Data Table View
- Automatic Report Generation
- Summary View
- Multilingual

RHTEMP1000IS SPECIFICATIONS*

Temperature Sensor:	Resistance Temperature Detector (RTD)
Temperature Range:	-20°C to +80°C (-4°F to +176°F)
Temperature Resolution:	0.01°C
Temperature Response Time:	10 minutes (free air)
Calibrated Accuracy:	±0.5°C (0°C to 55°C)
Humidity Sensor:	Capacitive Digital Humidity Sensor
Humidity Range:	0 to 100%RH (non-condensing)
Humidity Resolution:	0.1%RH
Humidity Response Time:	τ = 2 minutes to 63% of change
Calibrated Accuracy:	±3%RH maximum ±2%RH typical at 25°C
Specified Accuracy Range:	10%RH to 90%RH; +5°C to +55°C
Start Modes:	Software programmable immediate start or delay start up to 24 months in advance
Real Time Recording:	May be used with PC to monitor and record data in real time
Memory:	16,350 readings per channel
Password Protection:	Yes

Reading Rate:	1 second to 1 reading every 24 hours
Calibration:	Digital calibration through software
Calibration Date:	Automatically recorded within device
Memory Wrap:	Yes
Battery Life:	2 years typical at 25°C, 15 minute reading intervals
Data Format:	Date and time stamped °C, °F, K, °R ; %RH, mg/mL, Dew Point
Battery Type:	3.6V lithium battery included, **user replaceable**
Time Accuracy:	±1 minute/month
Computer Interface:	USB (interface cable required); 125,000 baud
Software:	Windows XP SP3/Vista/Windows 7
Operating Environment:	-20°C to +80°C, 0 to 95%RH (non-condensing)
Dimensions:	1.0" x 2.0" (25.4mm x 50.8mm)
Weight :	3.0 oz (85g)
Material :	316 Stainless Steel
Approvals:	CE; Intrinsically Safe for Class I, Div 1, groups ABCD; Non-incendive for Class I, Division 2, groups ABCD Hazardous (Classified) Locations
IP Rating:	IP30

*SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE. SPECIFIC WARRANTY AND REMEDY LIMITATIONS APPLY.

BATTERY WARNING: WARNING: FIRE, EXPLOSION, AND SEVERE BURN HAZARD. DO NOT SHORT CIRCUIT, CHARGE, FORCE OVER DISCHARGE, DISASSEMBLE, CRUSH, PENETRATE OR INCINERATE. BATTERY MAY LEAK OR EXPLODE IF HEATED ABOVE 80℃ (176°F).

ORDERING INFORMATION

MODEL	DESCRIPTION
RHTEMP1000IS	Intrinsically Safe Humidity and Temperature Data logger
IFC400	Docking station with USB cable, software, and manual
NIST	NIST Traceable Calibration Certificate
TL-2150/S	Replacement battery for RHTEMP1000IS

ASK ABOUT OUR OTHER DATA LOGGERS

Temperature
Humidity
Pressure
pH
Level
Shock
LCD Display
Pulse/Event/State
Current
Voltage
Wireless
Intrinsically Safe
Spectral Vibration
Motion

To order the product with the NIST certificate add -*CERT* to the end of the part number

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