

# TEMPRETRIEVER

## LOW COST REUSABLE TEMPERATURE DATA LOGGER



### Features

- Pushbutton Start/Stop
- LED Alarm Indication
- User Selectable Alarm Limits
- Reusable
- Programmable Start Time
- Real time Operation
- Miniature Size
- 38,400 Baud Offload Speed
- Low Cost
- CE Approved

### Benefits

- Simple Setup and Installation
- Minimal Long-Term Maintenance
- Long-Term Field Deployment

### Applications

- Implement HACCP Programs
- Record Temperature of Perishable Goods in Transit
- Warehouse Monitoring
- Environmental Studies
- HVAC
- Museum Monitoring
- Replace Costly Strip Chart Recorders
- Medical and Pharmaceutical

The TempRetriever is a low cost, reusable temperature recording device which allows for a myriad of applications. The device excels in dry applications such as shipping, museums, R&D, warehouses and HVAC. It boasts an accuracy of  $\pm 0.5$  °C and a resolution of 0.1 °C. The TempRetriever can store up to 16,383 readings in its non-volatile memory. This coupled with up to a one year battery life and LED alarm indication makes this a perfect temperature recorder when keeping costs down is paramount.



The MadgeTech software includes a full host of features that allows the user to set the start method (i.e. pushbutton, delayed start or start now), the start date and time, sample rate, high/low alarm limits, 6-character device ID and a 16-character extended ID. Data can be offloaded and displayed in °C, °F, K and °R. The software will also automatically calculate Mean Kinetic Temperature as well as other useful statistics to simplify analysis. For additional custom analysis, the data can be quickly exported into a MS Excel® spreadsheet with the click of a button.

Industries such as education, research, and perishable goods transport will all benefit from the remarkable value this device represents.

## MADGETECH DATA LOGGER SOFTWARE

Key

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

Date	Time	Time Zone	Data	Temperature (°C)
6/27/2012	5:06:37 AM	0400	+1545:00	209.94
6/27/2012	5:08:37 AM	0400	+1546:00	209.94
6/27/2012	5:10:37 AM	0400	+1547:00	209.94
6/27/2012	5:12:37 AM	0400	+1548:00	209.94
6/27/2012	5:14:37 AM	0400	+1549:00	209.94
6/27/2012	5:16:37 AM	0400	+1550:00	209.94
6/27/2012	5:18:37 AM	0400	+1551:00	209.94
6/27/2012	5:20:37 AM	0400	+1552:00	209.94
6/27/2012	5:22:37 AM	0400	+1553:00	209.94
6/27/2012	5:24:37 AM	0400	+1554:00	209.94
6/27/2012	5:26:37 AM	0400	+1555:00	209.94
6/27/2012	5:28:37 AM	0400	+1556:00	209.94
6/27/2012	5:30:37 AM	0400	+1557:00	209.73
6/27/2012	5:32:37 AM	0400	+1558:00	209.73
6/27/2012	5:34:37 AM	0400	+1559:00	209.73
6/27/2012	5:36:37 AM	0400	+1600:00	209.73
6/27/2012	5:38:37 AM	0400	+1601:00	209.73
6/27/2012	5:40:37 AM	0400	+1602:00	209.73
6/27/2012	5:42:37 AM	0400	+1603:00	209.73
6/27/2012	5:44:37 AM	0400	+1604:00	209.73
6/27/2012	5:46:37 AM	0400	+1605:00	209.73
6/27/2012	5:48:37 AM	0400	+1606:00	209.73
6/27/2012	5:50:37 AM	0400	+1607:00	209.73

- Software Features:
- Multiple graph overlay
  - Statistics
  - Digital calibration
  - Zoom in/ zoom out
  - Lethality equations (F0, PU)
  - Mean Kinetic Temperature
  - Full time zone support
  - Data annotation
  - Min./Max./Average lines
  - Data table view
  - Automatic report generation
  - Summary view
  - Multilingual

# TEMPRETRIEVER SPECIFICATIONS\*

Temperature Sensor:	Semiconductor
Temperature Range:	-40 °C to +80 °C (-40 °F to +176 °F)
Temperature Resolution:	0.1 °C (0.18 °F)
Calibrated Accuracy:	±0.5 °C (0 °C to +50 °C)
Alarm:	Programmable high and low limits; when logged exceeds either limit, red LED blinks every 3 seconds.
Activity Indicator:	Green LED blinks every 15 seconds to indicate device has been started.
Start Modes:	Software programmable immediate start or delay start up to six months in advance; or external pushbutton start/stop.
Real Time Recording:	May be used with PC to monitor and record data in real time.
Memory:	16,383 readings
Reading Rate:	1 reading every 5 seconds up to 1 reading every 30 minutes
Calibration:	Digital calibration through software
Calibration Date:	Automatically recorded within device

Battery Type:	3.6V lithium battery included, user replaceable
Battery Life:	1 year typical (1 minute reading rate at +25 °C (+77 °F))
Data Format:	Date and time stamped °C, °F, K, °R
Time Accuracy:	±1 minute/month at +20 °C (+68 °F) (RS232 cable not in use)
Computer Interface:	PC serial or USB (interface cable required); 38,400 baud
Software:	XP SP3/Vista/Windows 7/Windows 8
Operating Environment:	-40 °C to +80 °C (-40 °F to +176 °F), 0 %RH to 95 %RH non-condensing
Dimensions:	1.4 in x 2.2 in x 0.6 in (36 mm x 56 mm x 16 mm)
Weight:	0.8 oz (23 g)
Materials:	ABS plastic
Approvals:	CE

**BATTERY WARNING:** FIRE, EXPLOSION, AND SEVERE BURN HAZARD. DO NOT SHORT CIRCUIT, CHARGE, FORCE OVER DISCHARGE, CRUSH, PENETRATE, OR INCINERATE. BATTERY MAY LEAK OR EXPLODE IF HEATED ABOVE 100 °C (212 °F).

\*SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE. SPECIFIC WARRANTY REMEDY LIMITATIONS APPLY. CALL 1-603-456-2011 OR GO TO [WWW.MADGETECH.COM](http://WWW.MADGETECH.COM) FOR DETAILS.

## ORDERING INFORMATION

MODEL	DESCRIPTION
TEMPRETRIEVER	Low Cost, Reusable, Temperature Recorder
IFC200	Software, manual and USB interface cable
Calibration Certificate	Calibration Certificate available for data logger
LTC-7PN	Replacement battery for TempRetriever

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

For Quantity Discounts call 603-456-2011 or email [sales@madgetech.com](mailto:sales@madgetech.com)