LYOTEMP
LYOPHILIZATION
DATA LOGGER

MADGETECH
WE BUILD DATA LOGGERS

Features

- Ultra low Operating Temperature
- Hermetically Sealed Thermistor
- LED Status Indicators
- Manual Start and Stop Options
- Configurable Alarms
- Password Protection
- Real Time Recording

Benefits

- Compact
- Simple Setup and Installation
- Minimal Long-Term Maintenance

Applications

- Monitoring Lyophyilization
- Dry Ice Shipments
- Plasma and Red Cell Freezers

The LyoTemp Data Logger is designed for use in ultra-low operating temperatures for processes such as Lyophilization. The LyoTemp has an operating range of -60 °C to 75 °C, and is designed with a hermetically sealed thermistor temperature sensing element in a long thin flexible cable form, making it ideal for monitoring products during the lyophilization process.

The LyoTemp data logger offers a smart, affordable solution for a wide range of applications including the preparation of biological pharmaceuticals, monitoring plasma and red cell freezers or dry ice shipments.

The compact size and simple operation make the LyoTemp user friendly and reliable. The LyoTemp has three LED indicators to alert or inform the user of the logging status and manual start and stop options available at the device. Other features of the LyoTemp include delayed start configuration, real-time record-ing, user configurable alarms and password protection. The LyoTemp requires minimal maintenance and with average use will require annual calibration.
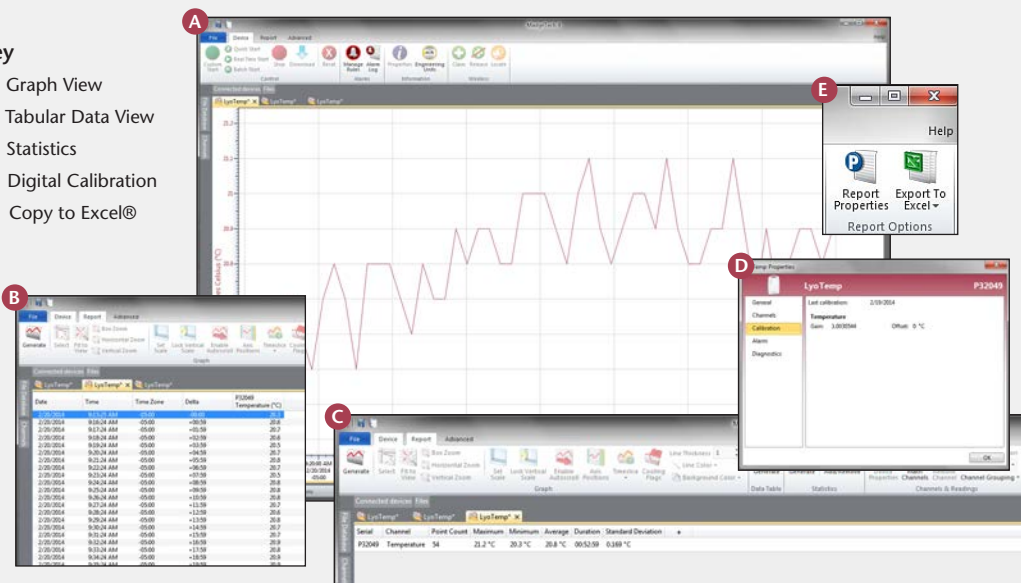
The LyoTemp utilizes the MadgeTech 4 Data Logger Software, available as a free download from www.madgetech.com. MadgeTech 4 software provides device management and an all-in-one package for storing, analyzing and sharing data.

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 (F0, PU)
- Mean Kinetic Temperature
- Full time zone support
- Data annotation
- Min./Max./Average lines
- Data table view
- Automatic report generation
- Summary view
- Multilingual

LYOTEMP SPECIFICATIONS*

Temperature Sensor:	NTC Thermistor
Temperature Range:	-60 °C to +75 °C (-76 °F to +167 °F)
Temperature Resolution:	0.1 °C
Calibrated Accuracy:	±0.5 °C
Reading Rate:	1 reading every 5 seconds up to 1 reading every 30 minutes
Memory:	32,767 readings; software configurable memory wrap
Start Modes:	Software programmable immediate start, delay start up to 30 days in advance or manual start with magnetic switch.
Temperature Alarm:	Software programmable high and low alarm limits, high and low warn limits each set point may be individually enabled or disabled
Alarm Delay:	Software programmable time delay for warn/alarm limits. Logger will not indicate out of range status until the temperature has been out of range for a set period of time.
LED Status Indicators:	Green: Blinks to indicate safe conditions during logging Yellow: Blinks to indicate warn limits have been exceeded Red: Blinks to indicate alarm criteria (limits/delay) have been exceeded

Password Protection:	An optional password may be programmed into the device to restrict access to configuration options. Data may be read out without the password.
Calibration:	Digital calibration through software
Calibration Date:	Automatically recorded within device
*Battery Type:	3.6V lithium battery (LTC-7PN), **Must be sent to MadgeTech for battery replacement.**
Battery Life:	1 year typical at a 10 minute reading rate
Data Format:	Date and time stamped °C, °F, K, °R
Time Accuracy:	±5 minutes/month at -80 °C
Computer Interface:	USB docking station to PC (IFC300); 38,400 baud
Software:	XP SP3/Vista/Windows 7/Windows 8
Operating Environment:	-60 °C to +75 °C (-76 °F to +167 °F); 0 to 100% RH
Dimensions:	Body: 3.25" x 2.10" x 0.41" (82.5 mm x 53.3 mm x 10.3 mm) Probe Length: 48" (1219 mm)
Ingress Protection (IP Rating):	IP50
Enclosure:	ABS plastic, white, polycarbonate labeling
Weight:	1.4 oz (40 g)
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 ºC (212 ºF).

ORDERING INFORMATION

MODEL	DESCRIPTION
LYOTEMP	Lyophilization Data Logger
IFC300	Software, manual, docking station and USB connection cable
*NIST	NIST Calibration Certificate

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

Contact:
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3910 Park Avenue, Unit 7
Edison, NJ 08820
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http://www.instrumentation2000.com

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