

LCS140 Lethality Compliance System

Need to record humidity at high temperatures? Look no further than the LCS140 Wet-Bulb/Dry-Bulb system. Ditch the complexity of calculating with a psychrometer, the LCS140 coupled with the MadgeTech 4 Software does all the work for you!

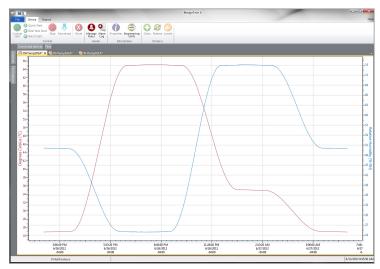
Capable of withstanding temperatures from -40 $^{\circ}$ C to +140 $^{\circ}$ C (-40 $^{\circ}$ F to +284 $^{\circ}$ F), the dual probe LCS140 takes wet-bulb and dry-bulb readings simultaneously to determine the amount of humidity present.

The LCS140 Includes:

- LCS140 Dual Probe Data Logger
- Reservoir Bottle (recommended to use distilled water only)
- Wet Bulb Socks
- Hanging Fixture

The LCS140 is compatible with the latest MadgeTech 4 Software making starting, stopping, and downloading simple and easy. Graphical, tabular, and summary data is provided for analysis and can be viewed as customizable engineering units.

MadgeTech 4 Software Features



Graph View

• Mean Kinetic Temperature

Full time zone support

• Min./Max./Average lines

Data annotation

Summary view

- Multiple graph overlay
- Statistics
- Digital calibration
- Zoom in/zoom out
- Lethality equations (F0, PU)



Cooling Flags



Export to Excel



Tabular Data View



Automation



Note: Only distilled water is recommended for use in the reservoir bottle.

Features

- 1 Second Reading Rate
- Programmable Start and Stop Time
- 32,767 Readings
- Memory Wrap
- User Replaceable Battery
- Battery Life Indicator
- Trigger Settings
- Optional Password Protection

SPECIFICATIONS

Specifications are subject to change without notice. Specific warranty remedy limitations apply. Call (603) 456-2011 or go to madgetech.com for details.

| TEMPERATURE | | |
|---------------------|---------------------------------------|--|
| Temperature Sensor | Rigid RTD Probe | |
| Temperature Range | -40 °C to +140 °C (-40 °F to +284 °F) | |
| Resolution | 0.01 °C (0.02 °F) | |
| Calibrated Accuracy | ±0.1 °C (±0.18 °F) | |

| GENERAL | | |
|--------------------------------------|--|--|
| Start Modes | Software programmable immediate start or delay start up to 18 months in advance | |
| Stop Modes | Manual or Timed (specific date and time) | |
| Real Time Recording | May be used with PC to monitor and record data in real time | |
| Memory | 32,767 readings | |
| Password Protection | An optional password may be programmed into the device to restrict access to configuration options. Data may be read out with the password. | |
| Readings in Trigger Settings Mode | 16,383 readings | |
| Trigger Settings | High and Low limits may be set. Once data meets or exceed sets limits, the device will record to memory. Bi-level start and stop triggers can also be programmed. Users can specify the number of readings to take after the device triggers. (<i>Triggering on channel #1 only</i>) | |
| Wrap Around | Yes | |
| Calibration | Digital calibration through software | |

| Calibration Date | Automatically recorded within device | |
|---------------------------------|--|--|
| Battery Type | 3.6V high-temperature 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, °R, K | |
| IP Rating LCS140 Data Logger | IP68 | |
| Time Accuracy | 1 minute/month at 25 °C (77 °F) Extended Operation: ±20 minutes/month at 140 °C (±450 ppm) | |
| Computer Interface | IFC400 or IFC406 USB docking station required; 125,000 baud | |
| Operating System Compatibility | Windows XP SP3 or later | |
| Software Compatibility | Standard Software version 4.2.19.0 or later Secure Software version 4.2.18.0 or later | |
| Operating Environment | -40 °C to +140 °C (-40 °F to +284 °F) 0 %RH to 100 %RH, 0.002 PSIA to 60 PSIA | |
| Dimensions | 14 in x 1.75 in x 1.2 in (356 mm x 44 mm x 30 mm) | |
| Weight | 7.8 oz (221 g) | |
| Material | 316 Stainless Steel / Radel | |
| 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 150°C (302°F).

Ordering Information

| LCS140 | PN 902168-00 | Lethality Compliance System |
|------------------------|--------------|---|
| IFC400 | PN 900319-00 | Docking station with USB cable |
| LCS140 Data Logger | PN 902229-00 | LCS140 Data Logger only |
| LCS140 Hanging Fixture | PN 902230-00 | LCS140 Hanging Fixture only |
| LCS140 Glass Bottle | PN 902231-00 | LCS140 Glass Bottle 2 oz |
| LCS140 Extra Socks | PN 902232-00 | LCS140 Extra Socks (6 Pack) |
| ER14250MR-145 | PN 900097-00 | Replacement battery for LCS140 Dual Probe Data Logger |

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

