LF101A LEAF WETNESS DATA LOGGER

Features

- Durable Weather Resistant Housing for Logger
- Precision Leaf Wetness Sensor
- Multiple Start/Stop Function
- Ultra High Speed Download
- 1 Million Reading Storage Capacity
- Battery Life Indicator
- Optional Password Protection
- Programmable Alarm
- Field Upgradeable

Benefits

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

Applications

- Environmental Studies
- Agricultural Research
- Plant Disease Forecasting
- Plant Watering
- Monitoring Frost Cycles
- Rainfall Onset Studies
- Irrigation Studies

The LF101A is a complete data logging system that accurately measures and records leaf wetness. Not only does it record the presence of water but also logs the amount of water on the sensor. The sensor responds to environments the same way a real leaf does and can also detect when ice is



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present. This low cost system comes complete with a data logger, weatherproof enclosure and leaf wetness sensor.

The LF101A is ideal for plant disease forecasting, irrigation studies and monitoring frost cycles. It features a multiple start/stop function, ultra-high speed download capability, 1 million reading storage capacity, optional memory wrap, battery life indicator, optional password protection, programmable alarms and more.

An IFC200 interface cable and software is required for use with the LF101A. The device can be started and stopped directly from a computer using the MadgeTech Software.

Key Graph View • - 0 Tabular Data View Help Statistics 0 Ň **Digital Calibration** Report Export To Properties Excel = Copy to Excel® -200040 -00.00.00 -00.00 10000 10000 10000 10005 10005 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 2423437 Ho 245543 Ho 245543 Ho 245543 Ho 245437 Ho 248437 Ho 248437 Ho 248437 Ho 248437 Ho 222347 Ho 222347 Ho 222347 Ho 222347 Ho 222347 Ho 222347 Ho 228437 Ho 228437 Ho 228437 Ho 228437 Ho 228437 Ho 228437 Ho

MADGETECH DATA LOGGER SOFTWARE

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

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LF101A SPECIFICATIONS*

Measurement Range:	Dry: 266mV typical 100% Saturated: 833mV typical	Real Time Recording:	The device may be used with PC to monitor and record data in real-time
Resolution:	50 µV	LED Functionality:	Green LED blinks: 10 second rate to indicate logging 15 second rate to indicate delay start
Accuracy:	±0.1mV		
Specified Accuracy:	Nominal range @ 25ºC		Red LED blinks: 10 second rate to indicate low battery and/or full memory 1 second rate to indicate an alarm condition
Input Connection:	6-position removable screw terminal		
Reference Output:	2.5VDC, 2.5mA (1kΩ) maximum load		
Temperature Effect on Span:	< 25µV over -40 to +80°C Temperature		
Effect on Offset: < 25µV over -40 to +80°C			An optional password may be programmed into the device to restrict access to configuration
Probe Measurement Time:	10 ms	Password Protection:	options. Data may be read out without the
Probe Power:	2.5VDC @2mA to 5VDC @ 7mA		password.
Reading Rate:	4Hz to 1 every 24 hours		Native measurement units can be scaled to display measurement units of another type. This ering Units: is useful when monitoring voltage outputs from different types of sensors such as strain gauges and load cells.
Memory:	1,000,000 readings; software configurable memory wrap 330,000 readings in multiple start/stop	Engineering Units:	
Wrap Around:	Yes	Battery Type:	3.6V lithium battery included; user replaceable
Start Modes:	Immediate startDelay start up to 24 monthsMultiple pushbutton start/stop	Battery Life:	10 months typical at a 1 minute reading rate with a 350Ω load2 years typical at a 1 minute reading rate with a
Stop Modes:	Manual through softwareTimed (specific date and time)		1000Ω load
	Start and stop the device multiple times without having to download data or	Time Accuracy:	±1 minute/month (at 20°C/68°F, stand alone data logging)
Multiple Start/Stop Mode:		Computer Interface:	USB (interface cable required); 115,200 baud
	communicate with a PC	Software:	XP SP3/Vista/Windows 7/Windows 8
Multiple Start/Stop Mode Activation:	To start the device: Press and hold the pushbutton for 5 seconds, the green LED will flash during this time. The device has started logging.	Operating Environment:	-10°C to +60°C (14°F to +140°F), 0%RH to 100%RH
		IP Rating:	IP65
		Enclosure Dimensions:	2.9" x 5.8" x 1.5" (74mm x 148mm x 39mm)
	To stop the device: Press and hold the pushbutton for 5 seconds, the red LED will flash during this time. The device has stopped logging.	Probe Dimensions:	4.4"x2.3"x 0.03" (111mm x 58mm x 0.76mm)
		Cable Length:	196" (5m)
		Materials:	ABS Plastic
		Weight:	8oz (226g)

BATTERY WARNING: FIRE, EXPLOSION, AND SEVERE BURN HAZARD. DO NOT RECHARGE, DISAS-SEMBLE, HEAT ABOVE 212°F, INCINERATE OR EXPOSE CONTENTS TO WATER.

*SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.SPECIFIC WARRANTY AND REM-EDY LIMITATIONS APPLY.

ORDERING INFORMATION

MODEL	DESCRIPTION	ASK ABOUT Pressure
LF101	A Leaf Wetness Data Logging System	OUR OTHER pH DATA Level LOGGERS Shock
IFC20	O Software, manual and USB interface cable	LCD Display Pulse/Event/State
LTC-7PI	N Replacement battery for LF101A	Current Voltage Wireless Intrinsically Safe
		Spectral Vibration Motion

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