

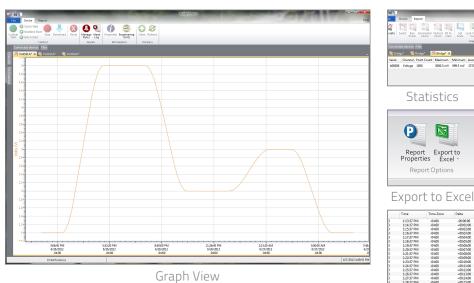
Bridge101A Bridge/Strain Gauge Data Logger

The Bridge101A Data Logger measures and records voltage, typically used in conjunction with strain gauges, load cells or other low-level DC voltage sources. This device is designed to accurately measure and record the output of the gauge to determine parameter levels such as stress, torque, strain, and pressure on a structure or item over a period of time.

Available in three different measurement ranges (±32 mV, ±160 mV or ±1200 mV), the Bridge101A offers a reading rate of up to 4 Hz with memory capacity of 2,000,000 readings (memory wrap optional). The device can be configured to start at a specified date and time up to 24 months in advance and the pushbutton start/stop feature allows the user to initiate or cease logging data in the field if desired.

The MadgeTech Data Logger Software offers user programmable Engineering Units which allows collected data to be presented in the established unit being measured. Equipped with endless data analysis and reporting tools, the MadgeTech software simplifies device management and provides the user with graph, tabular or summary reports with the ability to export data to Excel® as needed.

MadgeTech 4 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
- Summary view



Features

- Multiple Start/Stop Function
- Ultra High Speed Download
- 2,095,104 Reading Storage Capacity
- Memory Wrap
- Battery Life Indicator
- Optional Password Protection
- Programmable Alarm
- Field Upgradeable

Benefits

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

Applications

- Strain Gauge
- Load Cell
- Pressure Transducer
- Torque Sensors
- Load Bolts
- Position Transducer

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Automation

SPECIFICATIONS

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

MEASUREMENT				
Nominal Range	±32 mV	±160 mV	±1200 mV	
Measurement Range	±32 mV	±160 mV	±1200 mV	
Resolution	1 µV	5 μV	50 μV	
Calibrated Accuracy	±6 μV	±32 µV	±240 μV	
Input Range	0 to 2.5 V	0 to 2.5 V		
Reference Voltage	2.5 V	2.5 V		
Engineering Units	Native measurement units can be scaled to display measurement units of another type. This is useful when monitoring voltage outputs from different types of sensors such as temperature, CO ₂ , flow rate and more.			
GENERAL				
Start Modes	Immediate start Delay start up to 18 months Multiple pushbutton start/stop			
Stop Modes	Manual through software Timed (specific date and time)			
Multiple Start/Stop Mode	Start and stop the device multiple times without having to download data or communicate with a PC			
Real Time Recording	May be used with PC to monitor and record data in real time			
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.			
Memory	2,095,104 readings; software configurable memory wrap 419,020 readings in multiple start/stop mode			
Wrap Around	Yes			

AlarmUser selectable high and low limits; blinking LED for alarm and low batteryLEDs2 status LEDsReading Rate4Hz to 1 every 24 hoursCalibrationDigital calibration through softwareCalibration DateAutomatically recorded within deviceBattery Type3.6V lithium battery included; user replaceableBattery Life10 months typical at a 1 minute reading rate with a 350 Ω load 2 years typical at a 1 minute reading rate with a 1000 Ω loadData FormatDate and time stamped V, mV, µV, engineering units specified through softwareComputer InterfaceUSB (interface cable required); 115,200 baudOperating System compatibilityStandard Software version 2.03.06 or later Secure Software version 4.1.3.0 or laterOperating Environment-40 °C to +80 °C 0 %RH to 95 %RH non-condensingDimensions1.4 in x 2.1 in x 0.6 in (35 mm x 54 mm x 15 mm)Material0.8 oz (24 g)ApprovalsCE				
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Weight 0.8 oz (24 g)	Dimensions	1.4 in x 2.1 in x 0.6 in (35 mm x 54 mm x 15 mm)		
	Material	ABS plastic		
Approvals CE	Weight	0.8 oz (24 g)		
	Approvals	CE		

BATTERY WARNING: FIRE, EXPLOSION AND SEVERE BURN HAZARD. DO NOT RECHARGE, DISASSEMBLE, HEAT ABOVE 100 °C (212 °F), INCINERATE, CRUSH, OR EXPOSE CONTENTS TO WATER.

Ordering Information

Bridge101A-32	PN 900019-00	±32 mV Bridge/Strain Data Logger
Bridge101A-160	PN 900017-00	±160 mV Bridge/Strain Data Logger
Bridge101A-1200	PN 900016-00	±1200 mV Bridge/Strain Data Logger
IFC200	PN 900298-00	USB interface cable
LTC-7PN	PN 900352-00	Replacement battery for the Bridge101A

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

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