

BRIDGE/STRAIN GAUGE DATA LOGGER

Features

- 10 year battery life
- High speed download
- Low cost
- Programmable start time
- Reusable
- Miniature size
- User-friendly
- Reads in microstrain and engineering units
- Versatile inputs for many applications

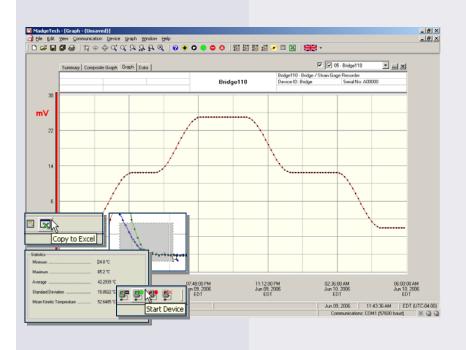
Applications

- Strain gauge
- Load cells
- Pressure transducers
- Torque sensors
- Load bolts
- Position transducers
- Replace costly strip chart recorders

The Bridge110 is a miniature, battery powered, stand alone, bridge/ strain gauge recorder. The Bridge110 features a real-time



clock module that extends the battery life to > 10 years and allows for high speed downloads. This is an all-in-one compact, portable, easy to use device that will measure and record up to 32,767 measurements per channel. The storage medium is non-volatile solid state memory, providing maximum data security even if the battery becomes discharged. The device can be started and stopped directly from your computer and its small size allows it to fit almost anywhere. The Bridge110 makes data retrieval quick and easy. Simply plug it into an empty COM or USB port and our userfriendly software does the rest.



MadgeTech Data Recorder Software Reports strain data in an easy to use graph.

The Windows[®]-based software package allows the user to effortlessly collect, display and analyze data. A variety of powerful tools allow you to examine, export, and print professional looking data with just a click of the mouse.

Click <u>MadgeTech Software</u> for more information or to download the software.

BRIDGE110 SPECIFICATIONS*

Nominal Range:	±10 mV	±25 mV	±100 mV	±1000 mV	Start Modes:	Software programmable immediate or delay start
Measurement Range:	±15 mV	±37.5 mV	±150 mV	±1200 mV		up to six months in advance
Resolution:	1 μV	2.5 µV	5 μV	50 µV	Real Time Recording:	May be used with PC to monitor and record data
Calibrated Accuracy:	±0.25 %	±0.10 %	±0.05 %	±0.01 %		in real time
Input Range:	0 to 2.5V	0 to 2.5 V	0 to 2.5 V	0 to 2.5 V	Memory	32,767 readings; software configurable memory wrap.
Reference Voltage:	2.5 V	2.5 V	2.5 V	2.5 V	Reading Rate:	1 reading every 2 seconds to 1 every 12 hours
Input Connection:	6-position	removable	screw term	ninal	Calibration	Digital calibration through software
Input Impedance:	>1MΩ du	ring acquisit	tion, low in	npedance	Calibration Date:	Automatically recorded within device
	when inac	tive			Battery Type:	3.6V lithium battery included; user replaceable
Reference Output:	2.5VDC, 2	.5mA (1kΩ)	maximum	load	Battery Life:	10 years (15 minute reading rate, 25°C)
Maximum Input Signal Impedance:	5kΩ				Data Format:	Date and time stamped %, ppm; ε, με; V, mV, μV, engineering units specified through software
Specified Accuracy:	Nominal r	ange @ 25°	С		Time Accuracy:	±1 minute/month (at 20 to 30°C)
Temperature Effect on Span:	< 25µV ov	er -40 to +8	30 °C		Computer Interface:	PC serial or USB (interface cable required); 57,600 baud
Temperature Effect on Offset:	< 25µV ov	er -40 to +8	30 °C		Software	XP SP3/VIsta/Windows 7
Engineering Units:		levice, user ale and offse			Operating Environment:	-40 °C to +80 °C, 0 to 95 %RH non-condensing
	to ±9.9999	9E+31			Dimensions	0.8" x 1.7" x 2.7" (20mm x 42mm x 68mm)
350 Ω sensors may be use gauges may be use					Weight	2 oz (60 g)
SOFTWARE FEAT	URES				BATTERY WARNING: FIRI DISASSEMBLE, HEAT	E, EXPLOSION, AND SEVERE BURN HAZARD. DO NOT RECHARGE, ABOVE 212⁰F, INCINERATE OR EXPOSE CONTENTS TO WATER.
Multiple Graphs:	several u	neously ana inits or dep o a single d	oloyments;			Calculate averages, min, max, standard deviation, and mean kinetic temperature with the touch of a button
Graphical Cursor:		k displays r arameter oi				Export data in a variety of common formats, or switch to Excel® with a single click
Data Table:		access tab dates, time ons				Automatically calculate and store calibration parameters
Scaling Options:	screen, o	e function or allows us eir own val	ser to man		55 5	Easy set up and launch of data loggers with immediate or delayed start, preferred sample rate, and device ID

Change colors, line styles, plotting Communications: Automatically sets up communications port, or options, show or hide channels quickly lets user select configuration

> *SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE. SPECIFIC WARRANTY AND REMEDY LIMITATIONS APPLY. CALL 1-603-456-2011 OR GO TO WWW.MADGETECH.COM FOR DETAILS.

ORDERING INFORMATION

Formatting Options:

<u>Model</u>	Description	Price (U.S.)			
Bridge110-10	±10mV Bridge Recorder	\$499.00			
Bridge110-25	±25mV Bridge Recorder	\$499.00			
Bridge110-100	±100mV Bridge Recorder	\$499.00			
Bridge110-1000	±1000mV Bridge Recorder	\$499.00			
IFC110	Software, manual and RS232 interface cable	\$99.00			
IFC200	Software, manual and USB interface cable	\$119.00			
NIST	N.I.S.T. Calibration Certificate	Call for Pricing			
LTC-7PN	Replacement battery for Bridge110	\$10.00			
or Quantity Discounts call 603-456-2011 or email <u>sales@madgetech.com</u>					

