

Features

- Interfaces to contact closures
- Programmable engineering units
- Real time operation
- Miniature size
- Reusable
- **User-friendly**
- Low cost
- CE compliant

Applications

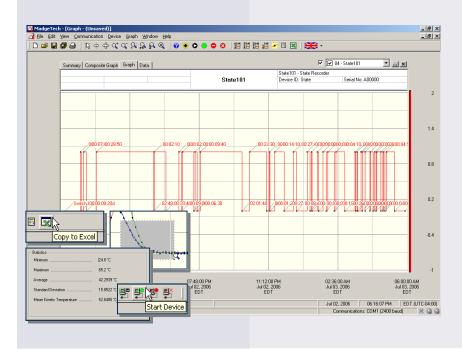
- Heating and cooling systems
- Security systems
- Power supply on/off
- Relay or dry contact closure
- TTL high/low
- Monitoring gas, water or electric pumps
- Time studies
- Status or state recording
- Replace costly strip chart recorders



State recorders are useful for collecting data on the duration of an event. The State101 can capture any event that lasts longer than one second. Some typical applications for state recorders include the monitoring of a furnace, air conditioner or pump turning on and off, or even how long a door is left open/closed.

The State101 records a time-stamped value whenever a state of the input signal changes. It samples the input at a user specified time interval and records to memory only if the state had changed from the previous sample. This efficient method of writing to memory maximizes the length of time the device can record.

The State101 can store up to 13,107 time stamped state changes. 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.



MadgeTech Data Recorder Software

displays status change 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 MadgeTech Software for more information or to download the software.

STATE101 SPECIFICATIONS*

for inputs greater than 24V: <25%

Input Impedance: $>1k\Omega$

Time Resolution: 1 second (reading rate dependent)

the device.

Real Time Recording: May be used with PC to monitor and

Scale Factor: User may program any desired scaling factor

record data in real time

from $\pm 1.000E-31$ to $\pm 9.999E+31$. The scal-

±9.9999E+31. The offset is stored in

ing factor is stored within the device.

Input Connection: Removable screw terminal Memory: 13,107 states; software configurable memory wrap

Input Range: 0 to 12VDC continuous; (0 to 30VDC peak) Reading Rate: 1 reading every second to 1 every 12 hours

Input Low: <0.4V Start Modes: Software programmable immediate start or delay start up to six months in advance Input High: >2.7V

Internal Weak Pull-Up: <500µA Visual Indicator: LED flashes at selected reading rate.

Recommended Duty Cycle 18V: <50% Battery Type: 3.6V lithium battery, included;

user replaceable

12VDC (over 1 min. interval): 30V: <10% Battery Life: 1 year typical life at 25°C

Data Format: Date and time stamped state changes (on/off),

user defined engineering units

Time Accuracy: ±1 minute/month at 20 °C (RS232 cable not in use) **Engineering Units:** User may define units up to 10 characters

in length. This value is stored within the **Computer Interface:** PC serial or USB (interface cable required);

2,400 baud

Software: Windows 95/98/ME/NT/2000/XP/Vista based

software

Offset Value: User may program any desired offset Operating Environment: -40 to +80°C, 0 to 95%RH non-condensing value from ±1.0000E-31 to

Dimensions: 1.4" x 2.5" x 0.6" (36mm x 64mm x 16mm)

Weight: 0.9 oz (24 g) Material: ABS plastic

Approvals: CE

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

Multiple Graphs: Simultaneously analyze data from Statistics: Calculate averages, min, max, standard

several units or deployments; easily deviation, and mean kinetic temperature

switch to a single data series with the touch of a button

Graphical Cursor: One click displays readings by time, **Export Data:** Export data in a variety of common formats, or

switch to Excel® with a single click value, parameter or sample number

Data Table: Calibration: Automatically calculate and store calibration Instantly access tabular view for

detailed dates, times, values, and parameters annotations

Scaling Options: Autoscale function fits data to the Logger Configuration:

Easy set up and launch of data loggers with screen, or allows user to manually immediate or delayed start, preferred sample

enter their own values rate, and device ID

Formatting Options: 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

<u>Model</u>	<u>Description</u>	Price (U.S.)
STATE101	State Recorder	\$99.00
IFC110	Software, manual and RS232 interface cable	\$99.00
IFC200	Software, manual and USB interface cable	\$119.00
LTC-7PN	Replacement battery for State101	\$10.00

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

ASK ABOUT OUR OTHER DATA RECORDERS

Temperature Pulse/Event/State Humidity Low Level Current Pressure Low Level Voltage **RF** Transmitters На Level Intrinsically Safe **Spectral Vibration** Shock

LCD Display

