

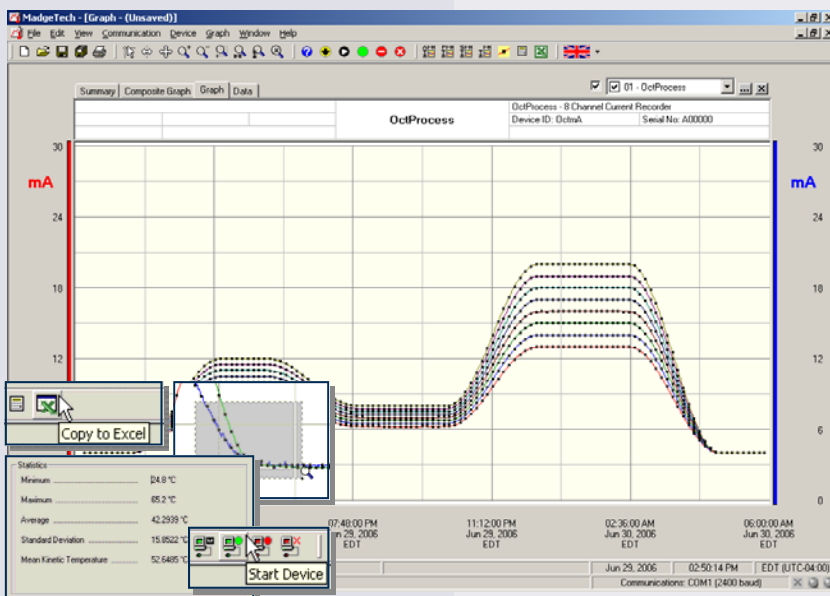
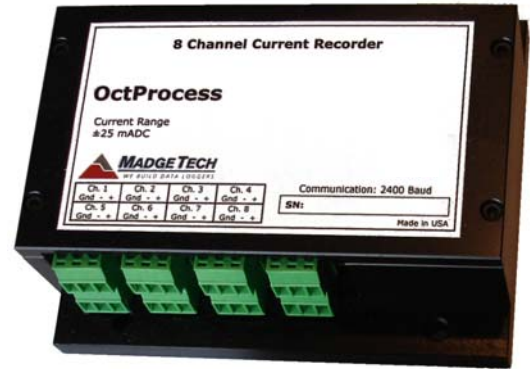
### Features

- 16-bit readings provide high resolution
- User-defined engineering units
- Programmable start time and recording interval
- Low cost
- Real-time operation
- Reusable
- Compact
- User-friendly

### Applications

- 4 to 20 mA recording
- pH recording
- Low level signal monitoring
- Photovoltaic studies
- Battery studies
- Biological sensor monitoring
- Factory process control
- Research and development
- Medical and Pharmaceutical
- Environmental studies

The OctProcess is an eight channel, battery powered, stand alone current recorder. This is an all-in-one compact, portable, easy to use device that will measure and record up to 16,383 readings 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 OctProcess makes data retrieval quick and easy. Simply plug it into an empty COM or USB port and our user-friendly software does the rest.



### OctProcess data recorder

displays eight channels of current in an easy to use graph.

MadgeTech's Data Recorder Software is an easy to use Windows®-based software package that 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.

For more information about MadgeTech Recorders or to demo our software, visit us online at: [www.madgetech.com](http://www.madgetech.com)

## OCTPROCESS SPECIFICATIONS\*

|                                  |   |                       |                       |
|----------------------------------|---|-----------------------|-----------------------|
| <b>Nominal Range:</b>            | $\pm 1\text{mA}$  | $\pm 25\text{mA}$     | $\pm 100\text{mA}$    |
| <b>Measurement Range:</b>        | $\pm 1.5\text{mA}$  | $\pm 30\text{mA}$     | $\pm 120\text{mA}$    |
| <b>+/- Input Voltage Range:</b>  | 0 to 2.5V   | 0 to 2.5V             | 0 to 2.5V             |
| <b>Resolution:</b>               | 0.05 $\mu\text{A}$  | 1 $\mu\text{A}$       | 5 $\mu\text{A}$       |
| <b>Calibrated Accuracy:</b>      | $\pm 0.5\%\text{FSR}$   | $\pm 0.1\%\text{FSR}$ | $\pm 0.1\%\text{FSR}$ |
| <b>Input Impedance:</b>          | 50 $\Omega$   | 10 $\Omega$           | 2 $\Omega$            |
| <b>Overload Protection:</b>      | $\pm 20\text{mA}$   | $\pm 100\text{mA}$    | $\pm 125\text{mA}$    |
| <b>Specified Accuracy Range:</b> | Nominal range @ 25°C  |                       |                       |
| <b>Input Connection:</b>         | 8, 3-input removable screw terminals  |                       |                       |
| <b>Analog Conversion Time:</b>   | 133 ms  |                       |                       |
| <b>Frequency Rejection:</b>      | 60 Hz   |                       |                       |
| <b>Temperature Coefficient:</b>  | < 100ppm/°C; < 50ppm/°C typical   |                       |                       |
| <b>Engineering Units:</b>        | User may define units up to 10 characters in length. This value is stored within the device.  |                       |                       |
| <b>Scale Factor:</b>             | User may program any desired scaling factor from $\pm 1.000\text{E}-31$ to $\pm 9.999\text{E}+31$ . The scaling factor is stored within the device. |                       |                       |
| <b>Start Modes:</b>              | Software programmable immediate start and delay start up to six months in advance   |                       |                       |

|                               |   |
|-------------------------------|---|
| <b>Memory:</b>                | 16,383 readings per channel; 131,068 total readings                                       |
| <b>Reading Rate:</b>          | 1 reading every second to 1 every 12 hours  |
| <b>Real Time Recording:</b>   | May be used with PC to monitor and record data in real time                               |
| <b>Calibration:</b>           | Digital calibration through software  |
| <b>Calibration Date:</b>      | Automatically recorded within device  |
| <b>Battery Type:</b>          | 9V lithium or alkaline battery included; <b>user replaceable</b>                          |
| <b>Battery Life:</b>          | 1 year typical  |
| <b>Time Accuracy:</b>         | $\pm 1$ minute/month at 20°C (RS232 port not in use)                                      |
| <b>Data Format:</b>           | Date and time stamped A, mA, $\mu\text{A}$ , engineering units specified through software |
| <b>Software:</b>              | XP SP3/Vista/Windows 7  |
| <b>Computer Interface:</b>    | PC serial or USB (interface cable required); 2,400 baud                                   |
| <b>Operating Environment:</b> | -20 to +60°C, 0 to 95%RH non-condensing   |
| <b>Dimensions:</b>            | 3.5" x 4.4" x 1.5" (89mm x 112mm x 39mm)  |
| <b>Weight:</b>                | 17 oz (480 g)   |

Common mode voltage must be less than 3 volts. All inputs must be within 3 volts of all other inputs.

**BATTERY WARNING:** DISCARD USED BATTERY PROMPTLY. KEEP OUT OF REACH OF CHILDREN. DO NOT DISPOSE OF IN FIRE. RECHARGE, PUT IN BACKWARDS, DISASSEMBLE, OR MIX WITH OTHER BATTERY TYPES. MAY EXPLODE, FLAME OR LEAK AND CAUSE PERSONAL INJURY.

## SOFTWARE FEATURES

|                            |  |                              |  |
|----------------------------|--|------------------------------|--|
| <b>Multiple Graphs:</b>    | Simultaneously analyze data from several units or deployments; easily switch to a single data series | <b>Statistics:</b>           | Calculate averages, min, max, standard deviation, and mean kinetic temperature with the touch of a button    |
| <b>Graphical Cursor:</b>   | One click displays readings by time, value, parameter or sample number                               | <b>Export Data:</b>          | Export data in a variety of common formats, or switch to Excel® with a single click                          |
| <b>Data Table:</b>         | Instantly access tabular view for detailed dates, times, values, and annotations                     | <b>Calibration:</b>          | Automatically calculate and store calibration parameters   |
| <b>Scaling Options:</b>    | Autoscale function fits data to the screen, or allows user to manually enter their own values        | <b>Logger Configuration:</b> | Easy set up and launch of data loggers with immediate or delayed start, preferred sample rate, and device ID |
| <b>Formatting Options:</b> | Change colors, line styles, plotting options, show or hide channels quickly                          | <b>Communications:</b>       | Automatically sets up communications port, or 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

| Model            | Description                                   | Price (U.S.)     |
|------------------|---|------------------|
| OCTPROCESS-1mA   | $\pm 1\text{mA}$ 8-Channel Current Recorder   | \$999.00         |
| OCTPROCESS-25mA  | $\pm 25\text{mA}$ 8-Channel Current Recorder  | \$999.00         |
| OCTPROCESS-100mA | $\pm 100\text{mA}$ 8-Channel Current Recorder | \$999.00         |
| 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 |
| U9VL-J           | Replacement battery for OctProcess            | \$15.00          |

### ASK ABOUT OUR OTHER DATA RECORDERS

|             |                    |
|-------------|--------------------|
| Temperature | Pulse/Event/State  |
| Humidity    | Low Level Current  |
| Pressure    | Low Level Voltage  |
| pH          | RF Transmitters    |
| Level       | Intrinsically Safe |
| Shock       | Spectral Vibration |
| LCD Display |                    |

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



DOC-1051009-00 REV F 2010.08.27