# OCTPROCESS
## 8 CHANNEL CURRENT DATA LOGGER

VALUTEMP PTE LTD
WARMS YOUR HEART

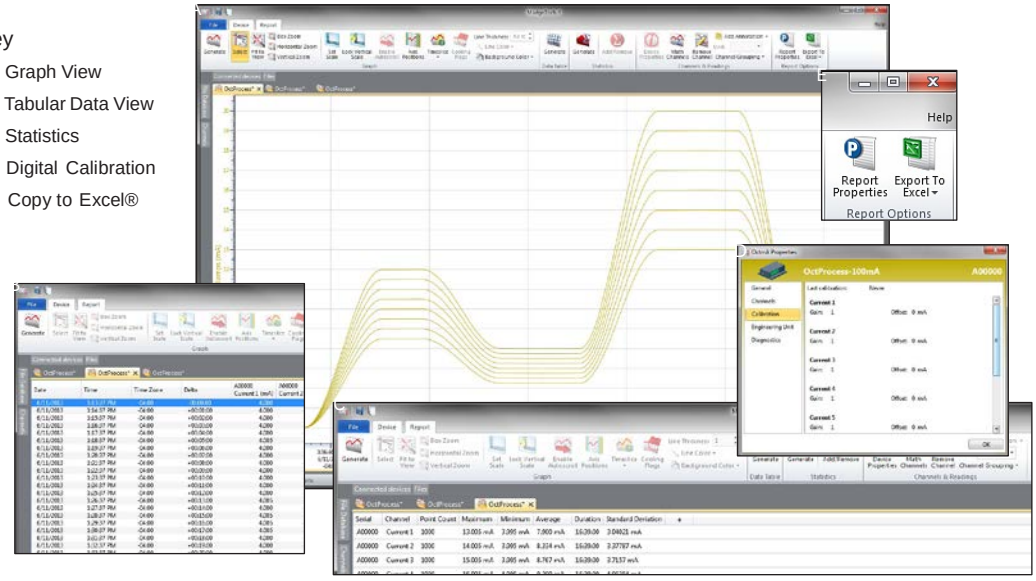
Features
- 16-bit readings provide high resolution
- User-defined engineering units
- Programmable start time and recording interval
- Low cost
- Real time operation
- Reusable
- Compact
- User-friendly


Applications
- 4 mA 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.

## MADGETECH DATA LOGGER SOFTWARE

Key
- Graph View
- Tabular Data View
- Statistics
- Digital Calibration
- Copy to Excel®




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

**VALUTEMP PTE LTD (Singapore)**
Tel: 65-6425 1635
sales@valutemp.com.sg

# OCTPROCESS SPECIFICATIONS*

*SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE. SPECIFIC WARRANTY REMEDY LIMITATIONS APPLY.

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

| | |
|---|---|
| Memory: | 16,383 readings per channel; 131,068 total readings |
| Reading Rate: | 1 reading every second up to 1 reading every 12 hours |
| Real Time Recording: | May be used with PC to monitor and record data in real time |
| Calibration: | Digital calibration through software |
| Calibration Date: | Automatically recorded within device |
| Battery Type: | 9V lithium or alkaline battery included; user replaceable |
| Battery Life: | 1 year typical |
| Time Accuracy: | ±1 minute/month at +20 ºC (+68 ºF) (RS232 port not in use) |
| Data Format: | Date and time stamped A, mA, µA, engineering units specified through software |
| Software: | XP SP3/Vista/Windows 7/Windows 8 |
| Computer Interface: | PC serial or USB (interface cable required); 2,400 baud |
| Operating Environment: | -20 ºC to +60 ºC (-4 ºF to +140 ºF), 0 %RH to 95 %RH non-condensing |
| Dimensions: | 3.5 in x 4.4 in x 1.5 in (89 mm x 112 mm x 39 mm) |
| Weight: | 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.*

# ORDERING INFORMATION

| MODEL | DESCRIPTION |
|---|---|
| OCTPROCESS-1mA | ±1mA 8-Channel Current Recorder |
| OCTPROCESS-25mA | ±25mA 8-Channel Current Recorder |
| OCTPROCESS-100mA | ±100mA 8-Channel Current Recorder |
| IFC110 | Software, manual and RS232 interface cable |
| IFC200 | Software, manual and USB interface cable |
| *NIST | NIST Calibration Certificate |
| U9VL-J | Replacement battery for OctProcess |

*To order the product with the NIST certificate add -CERT to the end of the part number.

ASK ABOUT OUR OTHER DATA LOGGERS

Temperature
Humidity
Pressure
pH
Level
Shock
LCD Display
Pulse/Event/State
Current
Voltage Wireless
Intrinsically Safe
Spectral Vibration
Motion

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