

# 3 channels 4-20 mA CURRENT RECORDER

Model : MMA-386SD

ISO-9001, CE, IEC1010



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*The Art of Measurement*

# SD Card real time data logger

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### Model : MMA-386SD

#### FEATURES

* 4-20 mA current loop recorder with real time data logger, save the measuring data along the time information ( year, month, date, hour, minute, second ) into the SD memory card and can be downloaded to the Excel, extra software is no need.
* Input signal : 4 to 20 mA, 3 channels.
* Resolution : 0.01 mA.
* Input channels : 3 channels.
* Show 3 channels ( CH1, CH2, CH3 ) 4-20 mA current loop values in the same LCD.
* Records time and date along with 4-20 mA DC current measurement value from external sensors, transducers and many other sources.
* 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
* Large LCD display, easy readout.
* Low power consumption and long battery life when using battery power.
* DC 1.5V ( UM-4/AAA ) battery x 6 PCs or optional DC 9V adapter in.
* RS232/USB computer interface.

#### SPECIFICATIONS

Circuit	Custom one-chip of microprocessor LSI circuit.
Display	LCD size : 60 mm x 50 mm
Memory Card	SD memory card. 1 GB to 16 GB.
Measurement Signal CH1, CH2, CH3	0 to 20 mA
Accuracy	± ( 0.5% + 0.02 mA )
Resolution	0.01 mA.

Datalogger Sampling Time	1/2/5/10/30/60/120/300/600 seconds /Auto
Data error no.	≤ 0.1 % no. of total saved data typically.
Advanced setting	* SD memory card Format * Set clock time ( Year/Month/Date, Hour/Minute/Second ) * Set sampling time * Set beeper sound ON/OFF * Set SD card Decimal character * Set RS232 data output ON/OFF
Update Time of Display	Approx. 1 second if measuring data is changed.
Data Output	RS 232/USB PC computer interface. * <i>Connect the optional RS232 cable UPCB-02 will get the RS232 plug.</i> * <i>Connect the optional USB cable USB-01 will get the USB plug.</i>
Operating Temperature	0 to 50 °C .
Operating Humidity	Less than 85% R.H.
Power Supply	Alkaline or heavy duty DC 1.5 V battery ( UM4, AAA ) x 6 PCs, or equivalent. or DC 9V adapter input. ( AC/DC power adapter is the optional accessory ). * <i>Batteries are also the clock backup power source, so if use AC to DC adapter power supply, it is recommend to install the batteries at any time.</i>
Weight	199 g/0.44 LB.
Dimension	132 x 80 x 32 mm ( 5.2 x 3.1 x 1.3 inch )
Accessories Included	* Instruction manual..... 1 PC * Hanging unit ( with sticker )..... 1 PC * Wire plug for input socket..... 3 PCs
Optional Accessories	* AC to DC 9V adapter * SD Card ( 4 GB ) * USB cable, USB-01. * RS232 cable, UPCB-02. * Data Acquisition software, SW-U801-WIN. * Excel Data Acquisition software, SW-E802.

\* Appearance and specifications listed in this brochure are subject to change without notice.

1601-MMA386SD