

SD Card real time data logger CO₂/HUMIDITY/TEMP. MONITOR

Model : MCH-383SD



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FEATURES

- * Monitor with real time data logger, save the measuring data along the time information (year, month, date, minute, second) into the SD memory card and can be down load to the Excel, extra software is no need. user can make the further data or graphic analysis by themselves.
- * Show CO₂ (Carbon dioxide), Humidity and Temperature value in the same LCD.
- * NDIR method principal for CO₂ (Carbon dioxide) measurement, available for long term operation. high repeatability and high accuracy.
- * 0.1 %RH resolution for the humidity reading, 0.1 degree resolution for the Temp. reading.
- * Used the precision capacitance type humidity sensor, professional and high accuracy.
- * SD card capacity : 1 GB to 16 GB.
- * Large LCD display, easy readout.
- * Microcomputer circuit, high reliability.
- * Low power consumption and long battery life when use battery power.
- * DC 1.5V (UM-4, AAA) battery x 6 PCs or DC 9V adapter in.
- * RS232/USB computer interface.
- * Patented

GENERAL SPECIFICATIONS

Circuit	Custom one-chip of microprocessor LSI circuit.
Display	LCD size : 60 mm x 50 mm
Measurement	CO ₂ (Carbon dioxide) Humidity and Temperature
Unit	CO ₂ ppm Humidity %RH Temp. °C, °F
CO ₂ Sensor Structure	NDIR
Response Time for CO ₂ measurement	CO ₂ : < 2 min. typically. * Reach the 63% reading value * Depend the environment air circulation.
Temperature Compensation	Automatic temp. compensation for CO ₂ measurement.
Datalogger Sampling Time	5 seconds.
Advanced setting	* Set clock time (Year/Month/Date, Hour/Minute/ Second) * Decimal point of SD card setting * Set temperature unit to °C or °F * Set sampling time mode (power consumption mode). * SD memory card Format

Memory Card	SD memory card. 1 G to 16 G.	
Update Time of Display	Approx. 1 second if measuring data is changed.	
Data Output	RS 232/USB PC computer interface. * Connect the optional RS232 cable UPCB-02 will get the RS232 plug. * Connect the optional USB cable USB-01 will get the USB plug.	
Operating Temperature	0 to 50 °C.	
Operating Humidity	Less than 85% R.H.	
Power Supply	DC 9V adapter input. (AC/DC power adapter is included).	
Power Consumption	Approx. DC 9.6 mA for 90% period. Approx. DC 128 mA for 10% period.	
Weight	Meter	240 g/0.53 LB.
	CO ₂ probe	158 g/0.35 LB.
Dimension	Meter	132 x 80 x 32 mm (5.2 x 3.1 x 1.3 inch)
	CO ₂ probe	132 x 38 x 32 mm
Accessories Included	Instruction manual.....1 PC AC to DC 9V adapter.....1 PC	
Optional Accessories	SD Card (1 GB) SD Card (2 GB) USB cable, USB-01. RS232 cable, UPCB-02. Data Acquisition software, SW-U801-WIN.	

ELECTRICAL SPECIFICATIONS (23±5 °C)

CO₂ (Carbon dioxide)

Range	0 to 4,000 ppm
Resolution	1 ppm
Accuracy	± 40 ppm * ≤ 1,000 ppm.
	± 5% of reading * > 1,000 ppm ≤ 3,000 ppm.
	± 250 ppm typically * > 3,000 ppm, reference only

Humidity

Range	10 % to 95 % R.H.
Resolution	0.1 % R.H.
Accuracy	≥ 70% RH : ± (3% reading + 1% RH).
	< 70% RH : ± 3% RH.

Temperature

Range	0 °C to 50 °C, 32 °F to 122 °F.
Resolution	0.1 degree
Accuracy	°C - 0.8 °C, °F - 1.5 °F.

PATENT	CHINA : ZL 2008 2 0189918.5 ZL 2008 2 0189917.0 Germany : Nr. 20 2008 016 337.4	TAIWAN : M 358970 M 359043 JAPAN : 3151214	U.S.A. : Pending
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* Appearance and specifications listed in this brochure are subject to change without notice.

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SD Card real time data logger, Patent

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ISO-9001, CE, IEC1010

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Lutron

LUTRON ELECTRONIC

The Art of Measurement

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