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

Model: MCH-383SD

ISO-9001, CE, IEC1010







The Art of Measurement

SD Card real time data logger CO2/HUMIDITY/TEMP. MONITOR Model : MCH-383SD

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	CO2 (Carb	on dioxide)	
	Humidity and Temperature		
Unit	CO2	ppm	
	Humidity	%RH	
	Temp.	°C , °F	
CO2 Sensor	NDIR		
Structure			
Response Time	CO2 :		
for CO2	< 2 min. typically.		
measurement	* Reach the 63% reading value		
	* Depend the environment air		
	circulation.		
Temperature	Automatic temp. compensation for		
Compensation	CO2 measurement.		
Datalogger	5 seconds.		
Sampling Time			
Advanced	* Set clock time (Year/Month/Date,		
setting	Hour/Minute/ Second)		
	* Decimal point of SD card setting		
	* Set temperature unit to $\ ^\circ\! C$ or $\ ^\circ\! F$		
	* Set sampling time mode (power consumption		
	mode).		
	* SD memory card Format		
PATENT	CHINA : ZL	2008 2 0189918.5 ZL 2008 2 018	

Memory Card		card. 1 G to 16 G.	
Update Time	Approx. 1 second if measuring data		
of Display	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	0 to 50 °C.		
Temperature			
Operating	Less than 85% R.H.		
Humidity			
Power Supply	DC 9V adapter input. (AC/DC power		
	adapter is included).		
Power	Approx. DC 9.6 mA for 90% period.		
Consumption	Approx. DC 128 mA for 10% period.		
Weight	Meter 240 g/0.53 LB.		
	CO2 probe	158 g/0.35 LB.	
Dimension	Meter	132 x 80 x 32 mm	
		(5.2 x 3.1 x 1.3 inch)	
	CO2 probe	132 x 38 x 32 mm	
Accessories	Instruction manual1 PC		
Included	AC to DC 9V adapter1 PC		
Optional	SD Card (1 GB)		
Accessories	SD Card (2 GB)		
	USB cable, USB-01.		
RS232 cable, UPCB-02.			
	Data Acquisition software, SW-U801-WIN.		

ELECTRICAL SPECIFICATIONS (23 \pm 5 °C)

CO2 (Carbon dioxide)

Range	0 to 4,000 ppm	
Resolution	1 ppm	
Accuracy	± 40 ppm	* <i>≦1,000 ppm.</i>
	± 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 ℃ to 50 ℃,32 °F to 122 °F.		
Resolution	0.1 degree		
Accuracy	°C - 0.8 °C, °F - 1.5 °F.		

PATENT	IINA : ZL 2008 2 0189918.5 ZL 2008 2 0189917.0		TAIWAN : M 358970 M 359043
	Germany : Nr. 20 2008 016 337.4	JAPAN : 3151214	U.S.A. : Pending

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