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, hour, 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.
- * Power supply from AC.DC 9V adapter in.
- * RS232/USB computer interface.

* Patented

GENERAL SPECIFICATIONS

Circuit		-chip of microprocessor LSI	
oncont	circuit.	chip of filleroprocessor ESI	
Dicplay		0 mm x 50 mm	
Display			
Measurement	CO2 (Carbo		
		d Temperature	
Unit		opm	
		%RH	
		C, °F	
CO2 Sensor	NDIR		
Structure			
Response Time	CO2 :		
for CO2	< 2 min. typ	ically.	
measurement	* Reach the 63% reading value		
	* Depend the environment air		
	circulation.		
Temperature	Automatic te	emp. compensation for	
Compensation	CO2 measur	ement.	
Datalogger	5/10/30/60/	120/300/600 seconds	
Sampling Time	or Auto.		
	* Default sampling time is 60 seconds.		
	* The " Aut	o " sampling . means when	
	the measuring value is changed ($> \pm$		
	$1 \% RH \text{ or } > \pm 1 \% \text{ or } \pm 50 \text{ ppm}$		
	will save t	the data one time only.	
Memory Card		card. 1 GB to 16 GB.	
Advanced	* SD memory		
setting 1	-	ne (Year/Month/Date, Hour/Minute/	
ootunig i	Second)		
	* Set sampling time		
	* Set beeper sound ON/OFF		
		Decimal character	
		The second character from the second contracter for ${}^\circ$ F	
		data output ON/OFF	
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Advanced	* Set CO2 hei	ght (meter) compensation value	
setting 2	* Set CO2 height (feet) compensation value		
Memory Card	SD memory card. 1 GB to 16 GB.		
Update Time	Approx. 1 se	cond 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 wil	ll get the USB plug.	
Operating	0 to 50 ℃.		
Temperature			
Operating	Less than 90% R.H.		
Humidity			
Power Supply	* DC 9V adapter input. (AC/DC power		
* Meter &	adapter is included).		
probe			
Power Supply		heavy duty DC 1.5 V battery	
* Clock backup	(UM4, AA	A) x 6 PCs, or equivalent.	
battery			
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 Included	Instruction manual1 PC		
	CO2 probe1 PC		
	AC to DC 9V adapter1 PC		
	Main meter hanging unit (with sticker)		
	1 PC		
		unit (with sticker)1 PC	
Optional	SD Card (2	,	
Accessories	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	* <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 90 % R.H.	
Resolution	0.1 % R.H.	
Accuracy	\geq 70% RH : ± (4% reading + 1%	% RH).
	< 70% RH : <u>±</u> 4% RH.	

Temperature

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

U.S.A. : Pending

CHINA : ZL 2008 2 0189918.5 ZL 2008 2 0189917.0 TAIWAN : M 358970 M 359043

Germany : Nr. 20 2008 016 337.4 JAPAN : 3151214

0911-MCH383SD

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