SD Card real time data recorder, Patent

VACUUM METER

Model: VC-9210SD

ISO-9001, CE, IEC1010





The Art of Measurement

SD Card real time recorder VACUUM METER Model : VC-9210SD

FEATURES

* Absolute vacuum & absolute pressure measurement.					
Wide measure range from 1 to 1500 mbar.					
* Overload protection up to 2000 mbar max.					
Separate probe, easy operation.					
* Application : Automobile, Industrial, laboratory,					
heating, ventilation, medical hospital					
* Heavy duty sensor used for air, oil gas, liquid.					
* 7 kind display units (torr, mm Hg, mbar, KPa, hPa,					
inch Hg, psi) select by push button on the front					
panel.					
* Microprocessor circuit assures maximum possible accuracy,					
provides special functions and features,					
* Real time SD memory card Datalogger, built-in Clock					
and Calendar, sampling time can set from 1 sec to 8					
hour 59 min. 59 sec.					
* Manual datalogger is available, during execute the					
manual datalogger function, it can set the different					
location no. (position 1 to position 99).					
* Innovation and easy operation, computer is not need to					
setup extra software, after execute datalogger, just take					
away the SD card from the meter and plug in the SD card					
into the computer, it can down load the all the measured					
value with the time information (year/month/date/					
hour/minute/second) to the Excel directly, the user can					
make the further data or graphic analysis by themselves.					
* SD card capacity : 1 GB to 16 GB.					
* LCD with green light backlight, easy reading.					
* It can default auto power off or manual power off.					
* Data hold, record max. and min. reading.					
* Microcomputer circuit, high accuracy.					
* Power by UM3/AA (1.5 V) x 6 batteries or DC 9V adapter.					
* RS232/USB PC computer interface.					

GENERAL SPECIFICATIONS

Circuit	Custom one-chip of microprocessor LSI circuit.				
Display	LCD size : 52 mm x 38 mm				
	LCD with green backlight (ON/OFF).				
Display units	7 kind display units : torr, mm Hg,				
	mbar, KPa, hPa, inch Hg, psi.				
Zero adjust	Push button on the front panel.				
Span adjust	Push button gain adjustment, usage for				
	calibration precisely if necessary.				
Datalogger	Auto	1 sec to 8 hour 59 min. 59 sec.			
Sampling Time	@ Sampling time can set to 1 second				
Setting range	but memory data may loss.				
	Manual	Push the data logger button			
		once will save data one time.			
		@ Set the sampling time to			
		0 second.			
		@ Manual mode, can also select the			
		1 to 99 position (Location) no.			
Data error no.	0.1% of total saved data max.				
Memory Card	SD memory card. 1 GB to 16 GB.				
Data Hold	Freeze the display reading.				
Memory Recall	Maximum & Minimum value.				

Advanced	* SD memory card Format				
setting	* Set clock time (Year/Month/Date,				
	Hour/Minute/Second)				
	* Set sampling time				
	* Auto power OFF management				
	* Set beep Sound ON/OFF				
	* Decimal point of SD card setting				
Sampling Time	Approx. 1 second.				
of Display					
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. (32 to 122 °F).				
Temperature					
Operating	Less than 80% R.H.				
Humidity					
Power Supply	* Alkaline or heavy duty DC 1.5 V battery				
Tower Suppry	(UM3, AA) x 6 PCs, or equivalent.				
	*.DC 9V adapter input. (AC/DC power				
Dowor Current	adapter is optional).				
Power Current	Normal operation (w/o SD card save				
	data and LCD Backlight is OFF) :				
	Approx. DC 5 mA.				
	When SD card save the data and LCD				
	Backlight is OFF) :				
	Approx. DC 25 mA.				
	* If LCD backlight on, the power				
	consumption will increase approx.				
	12 mA.				
Weight	350 g/0.77 LB.				
Dimension	177 x 68 x 45 mm				
	(7.0 x 2.7x 1.9 inch)				
	* Meter only				
Accessories	Instruction manual 1 PC				
Included	Vacuum sensor probe1 PC				
	Hard carrying case, CA-06 1 PC				
Optional	Soft carrying case, CA-05A.				
Accessories	SD memory card (1 GB)				
	SD memory card (2 GB)				
	AC to DC 9V adapter.				
	USB cable, USB-01.				
	RS232 cable, UPCB-02.				
	Data Acquisition software, SW-U801-WIN.				

ELECTRICAL SPECIFICATIONS (23±5°C)

Unit	Max. range	Resolution	Accuracy
mbar	1500 mbar	1 mbar	± 1 % F. S.
КРа	150.0 KPa	0.1 KPa	(23±5℃)
hPa	1500 hPa	1 hPa	Note :
torr	1125 torr	1 torr	Included linearity,
mm Hg	1125 mm Hg	1 mm Hg	hysteresis and
inch Hg	44.30 inch Hg	0.02 inch Hg	repeatability
psi	21.75 psi	0.01 psi	F.S.: Full Scale

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

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