PRESSURE METER

Model: PS-9303SD *ISO-9001, CE, IEC1010*







Pressure sensor for PS-9303SD Model : PS100-xxBAR





The Art of Measurement

SD Card real time data logger

PRESSURE METER, full line

Model: PS-9303SD

FEATURES

	EATURES
*	Meter can cooperate with 2, 5, 10, 20, 50, 100, 200,
	400 Bar sensor, new calibration procedures are not
	necessary when change the new sensor.
*	When change the new pressure sensor, just select
	pressure type (2, 5, 10, 20, 50, 100, 200, 400 bar)
	on the front panel button. The sensor type will
	memorize into the circuit permanently.
*	8 kind pressure units (Bar, Psi, Kg/cm^2, mm Hg,
	inch Hg, meter H20, inch H20, Atmosphere), unit
	select by push button on the front panel.
*	Full line optional pressure sensors are available.
	Cooperate the external pressure sensor that its output
	signal is 100 mV for full scale.
*	Zero button on the front panel, easy adjust the zero
	value of pressure sensor.
*	Available push button gain adjustment, usage for
	calibration precisely if necessary.
*	Separate pressure sensor, easy for remote measurement.
	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.
*	Wide applications : Measure pneumatic pressures,
	measure automobile engine pressures, pressure for
	super heat measurements, hydraulic servo controls,
	refrigeration, air conditioning, food processing.
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GENERAL SPECIFICATIONS

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Circuit	Custom one-chip of microprocessor LSI						
7	circuit.	circuit.					
Display	LCD size: 52 mm x 38 mm						
	LCD with	LCD with green backlight (ON/OFF).					
Sensor type	Can coo	perate with optional 2, 5, 10, 20,					
	50, 100,	50, 100, 200, 400 bar sensor, new					
	calibration	on are not necessary when					
	change t	the new sensor .					
Display units	Bar, Psi,	Kg/cm^2, mm Hg, inch Hg,					
	meter H	20, inch H20, Atmosphere.					
Accuracy	± (0.5%	6 + 1 d)					
_	* Under	the signal from the sensor is at					
	full so	cale (100 mV).					
	* Meter	only.					
	* Within	23±5℃.					
Pressure	Coopera	te the external pressure sensor					
sensor	that its o	output signal is 100 mV for full					
	scale. re	f. page 16					
Zero adjust	Push bu	tton on the front panel.					
Span adjust		tton gain adjustment, usage for					
		calibration precisely if necessary.					
Input signal	DC 100	DC 100 mV for full Scale.					
from sensor							
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.					
Memory Card	SD memory card. 1 GB to 16 GB.						
Data Hold	Freeze the display reading.						
Memory Recall	Maximum & Minimum value.						
Sampling Time	Approx.	1 second.					
of Display							
I	1						

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				
	* Set temperature unit to °C or °F				
	* Set CD temperature compensation factor				
	* Set CD to TDS or TDS to CD, CD only				
Data Output	RS 232/USB PC computer interface.				
Data Gatpat	* 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).				
	0 t0 50 C. (32 t0 122 F).				
Temperature	L H 000/ D.H.				
Operating	Less than 80% R.H.				
Humidity	* * * * * * * * * * * * * * * * * * * *				
Power Supply	* Alkaline or heavy duty DC 1.5 V battery				
	(UM3, AA) x 6 PCs, or equivalent.				
	* DC 9V adapter input. (AC/DC power				
	adapter is optional).				
Power Current	Normal operation (w/o SD card save				
	data and LCD Backlight is OFF):				
	Approx. DC 14 mA.				
	When SD card save the data and LCD				
	Backlight is OFF) :				
	Approx. DC 37 mA.				
	* If LCD backlight on, the power				
	consumption will increase approx.				
	12 mA.				
Weight	489 g/1.08 LB.				
Dimension	177 x 68 x 45 mm				
	(7.0 x 2.7x 1.9 inch)				
Accessories	Instruction manual 1 PC				
Included					
Optional	Pressure sensor, PS100-xxBAR,				
Accessories	* Refer to page				
	Hard carrying case, CA-06.				
	Soft carrying case, CA-05A.				
	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 ℃)

ELECTRICAL SI CONTONIONS (25±5 C)						
Sensor type	2 bar		5 bar		10 bar	
	Max.	Reso-	Max.	Reso-	Max.	Reso-
	range	lution	range	lution	range	lution
bar	2	0.002	5	0.005	10	0.01
Psi	29	0.02	72.5	0.1	145	0.2
Kg/cm^2	2.040	0.002	5.095	0.005	10.19	0.01
mm Hg	1500	2	3750	5	7500	10
inch Hg	59.05	0.05	147.6	0.1	295.2	0.2
meter H20	20.40	0.02	50.95	0.05	101.9	0.1
inch H20	802	1	2006	2	4010	5
Atmosphere	1.974	0.002	4.935	0.005	9.87	0.01

Sensor type	20 bar		50 bar		100 bar	
	Max.	Reso-	Max.	Reso-	Max.	Reso-
	range	lution	range	lution	range	lution
bar	20	0.02	50	0.05	100	0.1
Psi	290	0.2	725	1	1450	2
Kg/cm^2	20.40	0.02	50.95	0.05	101.9	0.1
mm Hg	15000	20	37500	50	75000	100
inch Hg	590.5	0.5	1476	1	2952	2
meter H20	204.0	0.2	509.5	0.5	1019	1
inch H20	8020	10	20050	20	40100	50
Atmosphere	19.74	0.02	49.35	0.05	98.7	0.1

Sensor type	200 bar		400 bar		
	Max.	Reso-	Max.	Reso-	
	range	lution	range	lution	
bar	200	0.2	400	0.5	
Psi	2900	2	5800	5	
Kg/cm^2	204.0	0.2	408.0	0.5	
mm Hg	150000	200	300000	500	
inch Hg	5905	5	11810	10	
meter H20	2040	2	4075	5	
inch H20	80200	100	160600	200	
Atmosphere	197.4	0.2	394.5	0.5	

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