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

Н	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.
*	wild ocompater circuit, night 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,
1	measure automobile engine pressures, pressure for
1	super heat measurements, hydraulic servo controls,

Advanced	* CD mamaru card Farmat
	* 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
	* Select sensor type.
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 ℃. (32 to 122 °F).
Temperature	
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
l ower ourrent	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.
147 1 1 1	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 manual1 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.

GENERAL SPECIFICATIONS

refrigeration, air conditioning, food processing.

Circuit	Custom	one-chip of microprocessor LSI				
7	circuit.					
Display	LCD size : 52 mm x 38 mm					
. ,	LCD with green backlight (ON/OFF).					
Sensor type		Can cooperate with optional 2, 5, 10, 20,				
31.		200, 400 bar sensor, new				
		calibration are not necessary when				
	change the new sensor .					
Display units		Bar, Psi, Kg/cm^2, mm Hg, inch Hg,				
Display arits		meter H20, inch H20, Atmosphere.				
Accuracy		± (0.5% + 1 d)				
riccuracy		r the signal from the sensor is at				
		cale (100 mV).				
		* Meter only.				
		* Within 23± 5 ℃.				
Pressure		te the external pressure sensor				
sensor						
Serisor	that its output signal is 100 mV for full					
Zono odlivot		scale. ref. page 16				
Zero adjust	Push button on the front panel.					
Span adjust		tton gain adjustment, usage for				
Institute all and all		on precisely if necessary. mV for full Scale.				
Input signal	DC 100	mv for full Scale.				
from sensor		14 . 01 . 50 . 50				
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.	Approx. 1 second.				
of Display						
	1					

Sensor type	2 bar	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	0.002	9.87	0.01	
hPA	2000	2	5000	5	10000	10	
kPA	200.0	0.2	500.0	0.5	1000	1	

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
hPA	20000	20	50000	50	100000	100
kPA	2000	2	5000	5	10000	10

Sensor type	200 ba	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		
hPA	200000	200	400000	500		
kPA	20000	20	40000	50		

PATENT CHINA: ZL 2008 2 0189918.5 ZL 2008 2 0189917.0 Germany: Nr. 20 2008 016 337.4 JAPAN: 3151214

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