FAMCO
هایپرصنعت

MANOMETER *2000 mbar, Dual & differential input*

Model : PM-9100   *ISO-9001, CE, IEC1010*

FEATURES

* Dual & differential input, 2000 mbar (2 bar) maximum range.
* Application : Industrial, laboratory, heating, ventilation, medical hospital.......
* Used for dry, non-corrosive and non-ionic air and gas only. Liquid is prohibited.
* Sensor is built inside the housing.
* Single lugs for pipe connection.
* 8 kind display units (mbar, psi, Kg/cm^2 mm Hg, inch Hg, meter H20, inch H20, Atmosphere) select by push button on the front panel.
* Records max. & min. readings.
* Zero button on the front panel, easy to offset the zero value.
* Data Hold.
* RS232 PC serial interface, can match the personal computer used as the Data Logger, Recorder.... and other modern pressure measuring system.

LUTRON ELECTRONIC

The Art of Measurement

MANOMETER
2000 mbar, dual & differential input
Model : PM-9100

FEATURES	
* Dual & differential input, 2000 mbar max. range.	* Push button gain adjustment, usage for calibration precisely if necessary.
* Application : Industrial, laboratory, heating, ventilation, medical hospital, used for air or not corrosive and not ionized gas.	* Microprocessor circuit assures maximum possible accuracy, provides special functions and features,
* Sensor is built inside the housing.	* Super large LCD display with contrast adjustment for best viewing angle.
* Single lugs for pipe connection.	
* 8 kind display units (m bar, psi, Kg/cm^2, mm/Hg, inch/Hg, meter/H2O, inch/H20, Atmosphere) select by push button on the front panel	* Records maximum & minimum readings with recall.
	* Data Hold function for stored the desired value on display.
* Auto shut off saves battery life.	* Built-in low battery indicator.
* Zero button on the front panel, easy to offset the zero value.	* RS 232 PC serial interface, can match the personal computer used as the Data Logger, Recorder.... & other modern pressure measuring system.

GENERAL SPECIFICATIONS			
Circuit	Microprocessor LSI circuit.	Power off	Auto shut off, saves battery life, or manual off by push button.
Display	61 mm x 34 mm supper large LCD display. 15 mm (0.6") digit size.		
		Sampling time	Approx. 0.8 second.
Display units	mbar, psi, Kg/cm^2, mm/Hg, inch/Hg meter/H2O, inch/H2O, Atmosphere.	Operating temperature	0 to 50 ℃ (32 to 122 ℉).
Function	Dual & differential input, data hold, zero/relative, memory.	Operating humidity	Less than 80% R.H.
Zero adjust	Push button on the front panel.	Power supply	006P DC 9V battery(heavy duty).
Span adjust	Push button gain adjustment, usage for calibration precisely if necessary.	Power current	Approx. DC 8.5 mA.
		Weight	345 g/0.76 LB
Sensor	* Sensor is built inside the housing. * Piezoelectric sensor. * Used for dry, non-corrosive and non-ionic air and gas only. * Liquid is prohibited.	Dimension	180 x 72 x 32 mm (7.1 x 2.8 x 1.3 inch)
		Accessories included	* Instruction manual............. 1 PC. * Hard carrying case.............. 1 PC.
Data hold	By push button.	Optional accessories	* Data acquisition software (Windows version), SW-U801-WIN * RS232 cable, UPCB-01 * USB cable, USB-01
Data record	Record maximum & minimum readings.		
Data output	RS 232 PC serial interface.		

ELECTRICAL SPECIFICATIONS (23±5 ℃)			
Unit	Max. range	Resolution	Accuracy
m bar	2000 m bar	1 m bar	
psi	29 psi	0.01 psi	
Kg/cm^2	2.040 Kg/cm^2	0.001 Kg/cm^2	± 2 % F. S. (F.S. : full scale)
mm/Hg	1500 mm/Hg	1 mm/Hg	
inch/Hg	59.05 inch/Hg	0.02 inch/Hg	*Note :*
meter/H2O	20.40 meter/H2O	0.01 meter/H2O	*Included linearity, hysteresis and*
inch/H2O	802 inch/H2O	0.5 inch/H2O	*repeatability*
Atmosphere	1.974 Atmosphere	0.001 Atmosphere	

* Appearance and specifications listed in this brochure are subject to change without notice.   0510-PM9100

200 mbar, Dual & differential input
RS232/USB computer interface

MANOMETER

Model : PM-9102   *ISO-9001, CE, IEC1010*

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200 mbar, dual & differential input
MANOMETER
Model : PM-9102

FEATURES

* Dual & differential input, 200 mbar max. range.
* Application : Industrial, laboratory, heating, ventilation, medical hospital, used for air or not corrosive and not ionized gas.
* Sensor is built inside the housing.
* Single lugs for pipe connection.
* 8 kind display units (mbar, psi, Kg/cm^2, mm Hg, inch Hg, meter H2O, inch H2O, Atmosphere) select by push button on the front panel
* Auto shut off saves battery life.
* Zero button on the front panel, easy to offset the zero value.
* Microprocessor circuit assures maximum possible accuracy, provides special functions and features,
* Super large LCD display with contrast adjustment for best viewing angle.
* Records maximum & minimum readings with recall.
* Data Hold function for stored the desired value on display.
* Built-in low battery indicator.
* RS232 PC serial interface, can match the personal computer used as the Data Logger, Recorder.... & other modern pressure measuring system.

GENERAL SPECIFICATIONS

Circuit	Microprocessor LSI circuit.
Display	61 mm x 34 mm supper large LCD display. 15 mm (0.6") digit size.
Display units	mbar, psi, Kg/cm^2, mm Hg, inch Hg, meter H2O, inch H2O, Atmosphere.
Function	Dual & differential input, data hold, zero/relative, memory.
Zero adjust	Push button on the front panel.
Sensor	* Sensor is built inside the housing.
	* Piezoelectric sensor.
	⚠️ * **Used for dry, non-corrosive and non-ionic air and gas only. Liquid is prohibited.**
Data hold	By push button.
Data record	Record maximum & minimum readings.
Data output	RS 232 PC serial interface.
Sampling time	Approx. 0.8 second.
Power off	Auto shut off, saves battery life or manual off by push button.

Operating temperature	0 to 50 ℃ (32 to 122 ℉).
Operating humidity	Less than 80% R.H.
Power supply	006P DC 9V battery (heavy duty).
Power current	Approx. DC 6.0 mA.
Weight	345 g/0.76 LB .
Dimension	180 x 72 x 32 mm (7.1 x 2.8 x 1.3 inch).
Accessories included	* Instruction manual......................... 1 PC. * Hard carrying case.......................... 1 PC. * Plug for quick coupler..................... 2 PCs.
Optional accessories	* Data acquisition software (Windows version)........... SW-U801-WIN * USB cable.......................... USB-01 * RS232 cable.......................UPCB-01

ELECTRICAL SPECIFICATIONS

Unit	Max. range		Resolution	
mbar	200	mbar	0.1	mbar
psi	2.9	psi	0.001	psi
Kg/cm^2	0.204	Kg/cm^2	0.001	Kg/cm^2
mm Hg	150	mm Hg	0.1	mm Hg
inch Hg	5.905	inch Hg	0.002	inch Hg
meter H2O	2.040	meter H2O	0.001	meter H2O
inch H2O	80.2	inch H2O	0.05	inch H2O
Atmosphere	0.197	Atmosphere	0.001	Atmosphere

Unit	Max. range		Accuracy
mbar	200	mbar	± 2 % F. S.
psi	2.9	psi	
Kg/cm^2	0.204	Kg/cm^2	Note :
mm Hg	150	mm Hg	* 23± 5 ℃.
inch Hg	5.905	inch Hg	* F.S. : full scale
meter H2O	2.040	meter H2O	* Included linearity,
inch H2O	80.2	inch H2O	hysteresis and
Atmosphere	0.197	Atmosphere	repeatability

Remark :

Measuring unit	Display unit
mbar	**m Bar**
psi	**Psi**
Kg/cm^2	**Kg /cm2**
mm Hg	**mm /Hg**
inch Hg	**in/Hg**
meter H2O	**m H2O**
inch H2O	**inch H2O**
Atmosphere	**ATP**

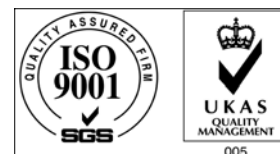* Appearance and specifications listed in this brochure are subject to change without notice.

MANOMETER
7000 mbar, Dual & differential input

Model : PM-9107   *ISO-9001, CE, IEC1010*
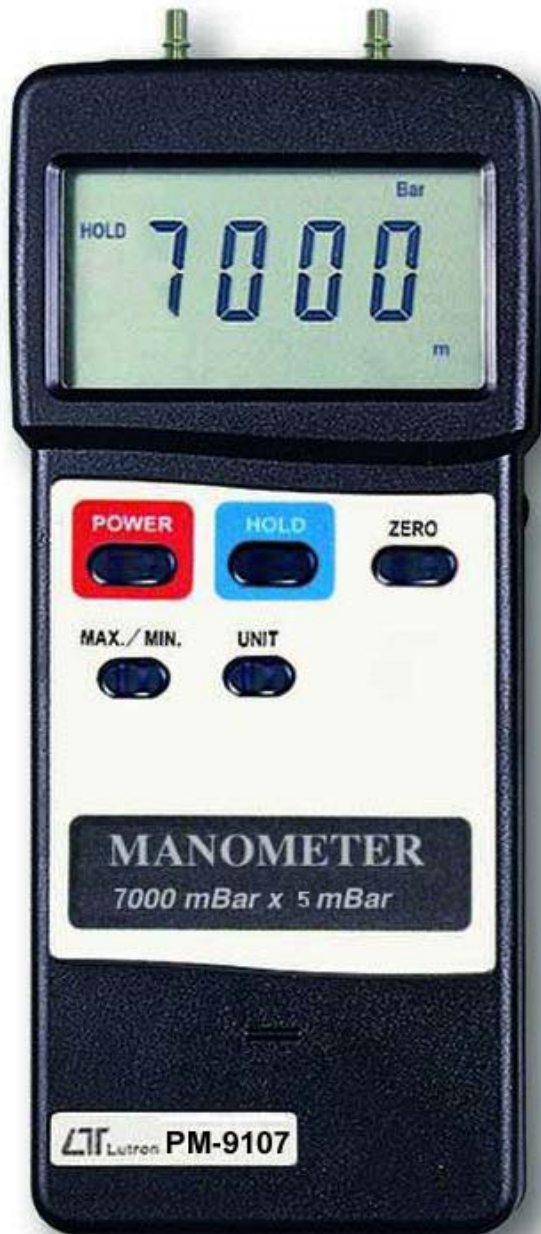
FEATURES

* Dual & differential input,   7000 mbar (7 bar) maximum range.
* Application : Industrial, laboratory, heating, ventilation, medical hospital, used for air or not corrosive and not ionized gas.
* Sensor is built inside the housing.
* Single lugs for pipe connection.
* 8 kind display units (mbar, psi, Kg/cm^2 mm Hg, inch Hg, meter H20, inch H20, Atmosphere) select by push button on the front panel
* Records max. & min. readings.
* Zero button on the front panel, easy to offset the zero value.
* Data Hold.
* RS232 PC serial interface, can match the personal computer used as the Data Logger, Recorder.... and other modern pressure measuring system.

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7000 mbar, dual & differential input
MANOMETER
Model : PM-9107

FEATURES	
* Dual & differential input, 7000 mbar max. range.	* Push button gain adjustment, usage for calibration precisely if necessary.
* Application : Industrial, laboratory, heating, ventilation, medical hospital, used for air or not corrosive and not ionized gas.	* Microprocessor circuit assures maximum possible accuracy, provides special functions and features,
* Sensor is built inside the housing.	* Super large LCD display with contrast adjustment for best viewing angle.
* Single lugs for pipe connection.	
* 8 kind display units (m bar, psi, Kg/cm^2, mm/Hg, inch/Hg, meter/H2O, inch/H20, Atmosphere) select by push button on the front panel	* Records maximum & minimum readings with recall.
	* Data Hold function for stored the desired value on display.
* Auto shut off saves battery life.	* Built-in low battery indicator.
* Zero button on the front panel, easy to offset the zero value.	* RS 232 PC serial interface, can match the personal computer used as the Data Logger, Recorder.... & other modern pressure measuring system.

GENERAL SPECIFICATIONS			
Circuit	Microprocessor LSI circuit.	Data record	Record maximum & minimum readings.
Display	61 mm x 34 mm supper large LCD display. 15 mm (0.6") digit size.	Power off	Auto shut off, saves battery life, or manual off by push button.
Display units	mbar, psi, Kg/cm^2, mm/Hg, inch/Hg, meter/H2O, inch/H2O, Atmosphere.	Sampling time	Approx. 0.8 second.
Function	Dual & differential input, data hold, zero/relative, memory.	Operating temperature	0 to 50 ℃ (32 to 122 ℉).
Zero adjust	Push button on the front panel.	Operating humidity	Less than 80% R.H.
Span adjust	Push button gain adjustment, usage for calibration precisely if necessary.	Power supply	006P DC 9V battery(heavy duty).
Sensor	* Sensor is built inside the housing. * Piezoelectric sensor. * Used for dry, non-corrosive and non-ionic air and gas only. * Liquid is prohibited.	Power current	Approx. DC 8.5 mA.
		Weight	345 g/0.76 LB
		Dimension	180 x 72 x 32 mm (7.1 x 2.8 x 1.3 inch)
		Accessories included	* Instruction manual............. 1 PC. * Hard carrying case.............. 1 PC.
Data hold	By push button.		

ELECTRICAL SPECIFICATIONS (23± 5 ℃)			
Unit	*Max. range*	*Resolution*	*Accuracy*
m bar	7000 m bar	5 m bar	
psi	101.5 psi	0.5 psi	
Kg/cm^2	7.135 Kg/cm^2	0.005 Kg/cm^2	± 2 % F. S. (F.S. : full scale)
mm/Hg	5250 mm/Hg	5 mm/Hg	
inch/Hg	206.7 inch/Hg	0.1 inch/Hg	*Note :*
meter/H2O	71.35 meter/H2O	0.05 meter/H2O	*Included linearity, hysteresis and repeatability*
inch/H2O	2810 inch/H2O	2 inch/H2O	
Atmosphere	6.905 Atmosphere	0.005 Atmosphere	

* Appearance and specifications listed in this brochure are subject to change without notice.   0510-PM9107

PRESSURE METER

Model : PS-9302

ISO-9001, CE, IEC1010

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PRESSURE METER
Full line

LTC Lutron PS-9302

PRESSURE
TRANSDUCER
Model : PS100
Power : DC 4V to 30 V
Output : DC 4V to 20 mA
4 mA = 0 pressure
20 mA = Max. range pressure
Wires connection :
Red............Power +
Black...........Power/Output-
White...........Output +

ISO 9001 SGS

UKAS
QUALITY
MANAGEMENT
005

LTC Lutron

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PRESSURE METER
Model : PS-9302

FEATURES

* Meter can cooperate with 2, 5, 10, 20, 50, 100, 400 bar sensor, new calibration are not necessary when change the new sensor .	* Zero button on the front panel, easy adjust the zero value of pressure sensor.
* When change the new pressure sensor, just select pressure type (2, 5, 10, 20, 50, 100, 400 bar) on the front panel button. The sensor type will memorize into the circuit permanently by EEPROM.	* Push button gain adjustment, usage for calibration precisely if necessary.
	* Separate pressure sensor, easy operation. & remote measurement.
	* Microprocessor circuit assures maximum possible accuracy, provides special functions and features,
* 8 kind pressure units (bar, psi, Kg/cm2 mm/Hg, inch/Hg, meter/H20, inch/H20, Atmosphere) select by push button on the front panel	* Super large LCD display with contrast adjustment for best viewing angle.
* Optional full line presssure sensor (2, 5, 10, 20, 50, 100, 400 bar) are available.	* Records maximum & minimum readings with recall.
	* Data Hold function for stored the desired value on display.
* Auto shut off saves battery life.	* Built-in low battery indicator.
* 4 pin DIN socket, 2 pins to provide DC 5 V exciting voltage (power supply) to pressure transducer, another two pins for accept transducer signal of 100mV full scale.	* RS232/USB PC serial interface, can match the personal computer used as the Data Logger, Pressure Recorder.... and other mordern pressure measuring system.

GENERAL SPECIFICATIONS

Circuit	Microprocessor LSI circuit.	Data output	RS 232/USB PC serial interface.
Display	61 mm x 34 mm supper large LCD display. 15 mm (0.6") digit size.	Sampling time	Approx. 0.8 second.
		Power off	Auto shut off, saves battery life, or manual off by push button.
Display units	bar, psi, Kg/cm^2, mm/Hg, inch Hg, meter H20 inch H20, Atmosphere.	Operating temperature	0 to 50 ℃ (32 to 122 ℉).
Accuracy	± (0.5% + 1 d) * Under the signal from the sensor is at full scale (100 mV). * Meter only. * Within 23 ℃ ± 5 ℃	Operating humidity	Less than 80% R.H.
		Power supply	006P DC 9V battery(heavy duty).
		Power current	Approx. DC 8.5 mA.
Pressure transducer	Optional, exciting voltage DC 5V, Sensor max. range output is DC 100 mV.	Weight	345 g/0.76 LB
		Dimension	180 x 72 x 32 mm (7.1 x 2.8 x 1.3 inch).
Zero adjust	Push button on the front panel.	Accessories included	* Instruction manual.........................1 PC
Span adjust	Push button gain adjustment, usage for calibration precisely if necessary.		
Transducer mV input signal	Approx 100 mV (Full Scale).	Optional accessories	* Pressure sensor, PS100-xxBAR refer to the bottom description. * Hard carrying case (CA-06). * Data acquisition software, SW-U801-WIN. * RS232 cable, UPCB-01 * USB cable, USB-01
Exciting output power supply	DC 5 V.		
Data hold	By push button.		
Data record	Record maximun & mininum readings.		

APPLICATIONS

* Measure Pneumatic Pressures. * Measure Automobile Engine Vacuum Pressures. * Pressure for Super Heat Measurements	* Hydraulic Servo controls * Refrigeration * Air conditioning * Food Processing

ELECTRICAL SPECIFICATIONS

Sensor type	*2 bar*		*5 bar*		*10 bar*		*20 bar*		*50 bar*		*100 bar*		*400 bar*	
	Max. range	Reso-lution	Max. range	Reso-lution	Max. range	Reso-lution	Max. range	Reso-lution	Max. range	Reso-lution	Max. range	Reso-lution	Max. range	Reso-lution
bar	2	0.002	5	0.005	10	0.01	20	0.02	50	0.05	100	0.1	400	0.5
psi	29	0.02	72.5	0.1	145	0.2	290	0.2	725	1	1450	2	5800	5
Kg/cm^2	2.040	0.002	5.095	0.005	10.19	0.01	20.40	0.02	50.95	0.05	101.9	0.1	408	0.5
mm Hg	1500	2	3750	5	7500	10	15000	20	37500	50	75000	100	300000	500
inch Hg	59.05	0.05	147.6	0.1	295.2	0.2	590.5	0.5	1476	1	2952	2	11810	10
meter H20	20.40	0.02	50.95	0.05	101.9	0.1	204.0	0.2	509.5	0.5	1019	1	4075	5
inch H20	802	1	2006	2	40010	5	8020	10	20050	20	40100	50	160600	200
Atmosphere	1.974	0.002	4.935	0.005	9.87	0.01	19.74	0.02	49.35	0.05	98.7	0.1	394.5	0.5

PRESSURE SENSOR, Model : PS100-XXBAR

Description	* Optional, pressure sensor that cooperate with PS-9302.
	* Out put : 100 mV DC for full scale.
	* 4 pin DIN plug, 2 pins to accept DC 5 V exciting voltage(power supply) for pressure transducer, another two pins for output signal of 100mV full scale.
	Size : 30 mm dia. x 85 mm. Weight : 160 g.
	Pressure Port Connector : PS 1/4" (19 teeth per inch) or 1/4" NPT * Included one adapter connector that convert the 1/4" NPT to 1/4 " PS.
Model	2 bar sensor PS100-2BAR
	5 bar sensor PS100-5BAR
	10 bar sensor PS100-10BAR
	20 bar sensor PS100-20BAR
	50 bar sensor PS100-50BAR
	100 bar sensor PS100-100BAR
	400 bar sensor PS100-400BAR

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

SD Card, real time data logger, Patent

PRESSURE METER

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

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

ISO 9001:2008 SGS

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![FAMCO logo] **FAMCO** هایپـرصنعت

SD Card real time data logger
PRESSURE METER, full line
Model : PS-9303SD

FEATURES

* 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.

Advanced setting	* SD memory card Format * 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 Temperature	0 to 50 ℃ . (32 to 122 ℉).
Operating Humidity	Less than 80% R.H.
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 Included	Instruction manual...........................1 PC
Optional Accessories	Pressure sensor, PS100-xxBAR, * 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

Circuit 7	Custom one-chip of microprocessor LSI 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, 50, 100, 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, meter H20, inch H20, Atmosphere.
Accuracy	± (0.5% + 1 d) * Under the signal from the sensor is at full scale (100 mV). * Meter only. * Within 23± 5 ℃.
Pressure sensor	Cooperate the external pressure sensor that its output signal is 100 mV for full scale. ref. page 16
Zero adjust	Push button on the front panel.
Span adjust	Push button gain adjustment, usage for calibration precisely if necessary.
Input signal from sensor	DC 100 mV for full Scale.
Datalogger Sampling Time Setting range	Auto: 1 sec to 8 hour 59 min. 59 sec. @ Sampling time can set to 1 second, 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 of Display	Approx. 1 second.

ELECTRICAL SPECIFICATIONS (23± 5 ℃)

Sensor type	2 bar		5 bar		10 bar	
	Max. range	Reso-lution	Max. range	Reso-lution	Max. range	Reso-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. range	Reso-lution	Max. range	Reso-lution	Max. range	Reso-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 bar		400 bar			
	Max. range	Reso-lution	Max. range	Reso-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		

VACUUM METER

Model : VC-9200

ISO-9001, CE, IEC1010

POWER HOLD

MAX./MIN. UNIT

Unit :

mmHg	mbar	inch Hg	psi
ttorr (torr)	micron (uH9)	kpa (--PA)	pr (PA)

VACUUM METER

1500 MBAR x 1 mbar , 1125 torr x 1 torr

Lutron VC-9200

Vacuum Sensor
Model: VC-01
Max. range : 1500 mbar
Port Connect : 1/4 PS

ISO 9001 SGS

UKAS QUALITY MANAGEMENT 005

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VACUUM METER

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Model : VC-9200

FEATURES	
* Absolute vacuum & absolute pressure measurement	* Auto shut off saves battery life.
* Wide measure range from 1 to 1500 mbar.	* Microprocessor circuit assures maximum possible accuracy, provides special functions and features,
* Overload protection up to 2000 mbar max.	
* Separate probe, easy operation.	* Records maximum & minimum readings with recall.
* Application : Automobile, Industrial, laboratory, heating, ventilation, medical hospital…..	* Data Hold function for stored the desired value on display.
* Heavy duty sensor used for air, oil gas, liquid.	* Built-in low battery indicator.
* 8 kind display units (torr, mm Hg, micron, mbar, KPa, Pa, inch Hg, psi) select by push button on the front panel.	* RS232 PC serial interface, can match the personal computer used as the Data Logger, Recorder….

GENERAL SPECIFICATIONS

Display	61 mm x 34 mm supper large LCD display. 15 mm (0.6") digit size.	Power supply	006P DC 9V battery(heavy duty).
		Power current	Approx. DC 6.0 mA.
Display units	8 kind display units : torr, mm Hg, micron, mbar, KPa, Pa, inch Hg, psi.	Pressure Port Connector	1/4" PS
Circuit	Microprocessor LSI circuit.	Weight	*Instrument :*
Function	Data hold, memory (max., min.)		220 g/0.48 LB.
Sensor probe	* Separate probe, easy operation. * Heavy duty sensor uesed for vacuum measurement of air, oil gas liquid.		*Sensor probe :*
			175 g/0.39 LB.
		Dimension	*Meter :*
			180 x 72 x 32 mm
Data hold	By push button.		(7.1 x 2.8 x 1.3 inch)
Data record	Record maximum & minimum readings.		*Sensor probe :*
			90 mm x 30 mm Dia.
Data output	RS 232 PC serial interface.	Accessories	* Sensor probe………………… 1 PC.
Sampling time	Approx. 0.8 second.		* Instruction manual…………. 1 PC.
Power off	Auto shut off, saves battery life, or manual off by push button.	included	* Hard carrying case…………. 1 PC.
Operating temperature	0 to 50 ℃ (32 to 122 ℉).	Optional accessories	* Data acquisition software (Windows version), SW-U801-WIN.
Operating humidity	Less than 80% R.H.		* RS232 cable, UPCB-01
			* USB cable, USB-01

ELECTRICAL SPECIFICATIONS

Unit	*Max. range*	*Resolution*	*Accuracy (23± 5 ℃)*
mbar	1500 mbar	1 mbar	
KPa	150.0 KPa	0.1 KPa	± 1 % F. S. (F.S. : full scale)
Pa	150,000 Pa	100 Pa	
torr	1125 torr	1 torr	*Note :*
mm Hg	1125 mm Hg	1 mm Hg	*Included linearity, hysteresis and repeatability*
micron	1125,000 micron	1000 micron	
inch Hg	44.30 inch Hg	0.02 inch Hg	
psi	21.75 psi	0.01 psi	

* Appearance and specifications listed in this brochure are subject to change without notice.   0607-VC9200

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