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With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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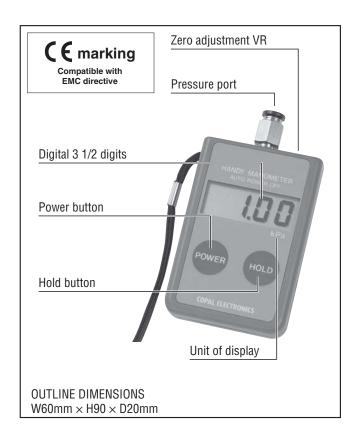






HANDHELD DIGITAL MANOMETER

PG-100



FEATURES

Excellent stability

Pressure-sensitive element of semiconductor chip and circuit technology guarantees excellent temperatue compensation.

Super long battery life

A 3.6 V lithium battery incorporated has the long life to last over 3000 hours.

Automatic power off

Automatic power off function works in approximately 3 minutes, which minimizes battery waste.

- Handy size and easy one hand operation
- Easy reading with a large LCD display
 No reading error because of digital display with the holding function.
- Meet EMC standard EN 55011 (EMI) EN 50082-1 (EMS)

■ MODEL NUMBER DESIGNATION

PG-100-102GP Pressure reference Series name G : Gauge GH: Gauge VH: Gauge (Vacuum) AH: Absolute GP: Gauge Rated pressure range $\begin{array}{c} 101:0\sim9.81~kPa~\{0\sim0.1~kgf/cm^2\} & 0\sim10~kPa~~(When~displayed~in~the~unit~of~Pa)\\ 102:0\sim98.1~kPa~\{0\sim1~kgf/cm^2\} & 0\sim100~kPa~~(When~displayed~in~the~unit~of~Pa)\\ 103:0\sim981~kPa~\{0\sim10~kgf/cm^2\} & 0\sim1~MPa~~(When~displayed~in~the~unit~of~Pa)\\ \end{array}$ Pa unit display GMP: Gauge (103 type only) Pa unit display
RP: Gauge (Compound pressure) Pa unit display VP: Gauge (Vacuum) Pa unit display AP: Absolute Pa unit display

■ LIST OF MODEL NUMBERS

⟨Pa version⟩

Pressure reference		Gauge				
Rated pressure range kPa	0 ~ 10	0 ~ 100	0 ~ 1000	0 ~ - 100	100 kPa abs	
Unit of display		kPa				
Part number	PG-100-101GP	PG-100-102GP	PG-100-103GP	PG-100-102VP	PG-100-102AP	
Unit of display	MPa					
Part number		● PG-100-103GMP				

The GMP version, marked $\ensuremath{\ens$

(Compound pressure version)

Pressure reference	Gauge		
Rated pressure range kPa	- 10 ~ 10	– 100 ~ 100	– 100 ~ 1000
Unit of display	kPa		
Model number	PG-100-101RP	PG-100-102RP	PG-100-103RP

⟨Non SI unit version⟩

Pressure reference			Gauge			Absolute
kPa {kgf/cm²} Rated pressure range	0 ~ 9.81 {0 ~ 1000 mmH₂0}	0 ~ 98.1 {0 ~ 1}	0 ~ 981 {0 ~ 10}	0 ~ - 98.1 {0 ~ - 735 mmHg}		0 ~ 98.1 kPa abs {0 ~ 735 mmHg abs}
Unit of display	mmH2O	kgf/cm²				
Part number	→ PG-100-101G	→ PG-100-102G → PG-100-103G		→ PG-100-102VH	→ PG-100-102GH	→ PG-100-102AH

 ^{□:} Not available

Marked > is manufactured upon receipt of order basis.

* Verify the above model numbers when placing orders.

<Option>

- The soft carrying case for PG-100 Order item: PG-100 soft carrying case (Useful for when carrying out and keeping.)
- DC3.6 V lithium battery Order item: Lithium battery (The battery is an expendable item. The first one is provided with the unit.)



The soft carrying case for PG-100 (Option)

PG-100HANDHELD DIGITAL MANOMETER

■ STANDARD SPECIFICATIONS

⟨Pa version⟩

ullet Unless otherwise specified, the specs are defined at an ambient temperature of 25 \pm 5 °C.

Item			PG-100					
	Pressure reference				Gauge			
	Model number			101GP	102GP	103GP 103GMP	102VP	102AP
	Rated pressure range kPa			10	100	1000	– 100	100 kPa abs
	Maximum pressure		kPa	20	200	1500	200	200 kPa abs
Suo	Break-down pressur	re	kPa	50	500	2000	500	500 kPa abs
General specifications	Operating temp. ran	ige	°C			0 ~ 50		
speci	Compensated temp. range °C					0 ~ 50		
neral	Operating humidity		% RH	35 ~ 85 (No condensation)				
Gei	Storage temp.		°C	_	20 ~ 70 (Atmosphe	ric pressure, humidi	ty 65 %RH maximur	n)
	Pressure medium			Non-corrosive gases				
	Pressure port			M 5 female				
	Net weight g			Approx. 85				
	Power			Lithium battery DC3.6 V Battery life 3000 h minimum				
	No. of digits			3 1/2				
	Display element			LCD				
	Rated display range		*	0.00 ~ 10.00	00.0 ~ 100.0	000 ~ 1000 .000 ~ 1.000 (MPa)	00.0 ~ - 100.0	00.0 ~ 100.0 (kPa abs)
Display	Display cycle					Approx. 3 times/s		
Disp	Display accuracy		maximum	\pm 0.5 %F.S. \pm 2 counts (at 25 °C \pm 5 °C)				
	Thermal error	ZER0	maximum	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$				± 0.1 %F.S./°C ± 2 counts
	THEITHAL EITOI	SPAN			± 0.05	% Reading/°C ± 2 o	counts	
	Resolution			1 count				
	Additional function			Auto power off (3 min), Display hold, Battery replacement display				
	Accessories			Attachements : Half union (for a tube of φ 6 O.D.),and Barb fitting (for a tube of φ 4 I.D.), one piece each				

^{*} The value out of rated pressure range can be displayed, but the accuracy is not guaranteed.

■ STANDARD SPECIFICATIONS

⟨Compound pressure version⟩

 \bullet Unless otherwise specified, the specs are defined at an ambient temperature of 25 \pm 5 °C.

ltem				PG-100				
	Pressure reference			Gauge				
	Model number			101RP	102RP	103RP		
	Rated pressure rang	е	kPa	– 10 ~ 10	– 100 ~ 100	- 100 ~ 1000		
	Maximum pressure	Maximum pressure kPa		20	200	1500		
Suc	Break-down pressur	е	kPa	50 500		2000		
fication	Operating temp. ran	ge	°C	0 ~ 50				
General specifications	Compensated temp.	range	°C		0 ~ 50			
neral	Operating humidity % RH				35 ~ 85 (No condensation)			
Geı	Storage temp. °C			- 20 ~ 70 (Atn	nospheric pressure, humidity 65 %	6RH maximum)		
	Pressure medium			Non-corrosive gases				
	Pressure port			M 5 female				
	Net weight g			Approx. 100				
	Power			Lithium batteryDC3.6 V Battery life 3000 h minimum				
	No. of digits			3 1/2				
	Display element			LCD				
	Rated display range			- 10.00 ~ 10.00	– 100.0 ~ 100.0	- 100 ~ 1000		
Display	Display cycle			Approx. 3 times/s				
Dis	Display accuracy (at	25 °C ±	5 °C)	± 1 %F.S. ± 2 counts	± 0.5 %F.S.	± 2 counts		
	Thermal error	ZERO maximum		\pm 0.1 %F.S./°C \pm 2 counts \pm 0.05 %F.S./°C \pm 2 counts				
	Thermal circl	SPAN		± 0.05 % Reading/°C ± 2 counts				
	Resolution			1 count				
	Additional function			Auto power off (3 min), Display hold, Battery replacement display				
	Accessories			Attachements : Half union (for a tub	e of φ 6 O.D.), and, Barb fitting (for	a tube of φ 4 I.D.), one piece each.		

PG-100HANDHELD DIGITAL MANOMETER

■ STANDARD SPECIFICATIONS

⟨Non SI unit version⟩

ullet Unless otherwise specified, the specs are defined at an ambient temperature of 25 \pm 5 °C.

Item			PG-100					
	Pressure reference				Gauge			Absolute
	Model number		101G	102G	103G	102VH	102GH	102AH
	Rated pressure rang	e kPa {kgf/cm²}	9.81 {1000 mmH ₂ 0}	98.1 {1}	981 {10}	- 98.1 {- 735 mmHg}	98.1 {735 mmHg}	98.1 kPa abs {735 mmHg abs}
	Maximum pressure	kPa {kgf/cm²}	19.6 {2000 mmH ₂ 0}	196 {2}	1471 {15}	{1471 mmHg} {1		196 kPa abs {1471 mmHg abs}
Suo	Break-down pressur	e kPa {kgf/cm²}	49.0 {5000 mmH ₂ 0}	49.0 490 1961 490			490 kPa abs {3678 mmHg abs}	
ficati	Operating temp. rang	ge °C		0 ~ 50				
General specifications	Compensated temp.	range °C			0	~ 50		
neral	Operating humidity	% RH		35 ~ 85 (No condensation)				
Ger	Storage temp.	°C	– 20 ~ 70 (Atmospheric pressure, humidity 65 %RH maximum)					
	Pressure medium		Non-corrosive gases					
	Pressure port		M 5 female					
	Net weight	g	Approx. 100					
	Power			Lithium battery DC3.6 V Battery life 3000 h minimum				
	No. of digits				3	1/2		
	Display element			LCD				
	Rated display range		000 ~ 1000 mmH ₂ 0	.000 ~ 1.000 kgf/cm ²	0.00 ~ 10.00 kgf/cm ²	000 ~ - 735 %1 mmHg	000 ~ 735 %1 mmHg	000 ~ 735 %1 mmHg
Display	Display cycle				Approx	. 3 times/s		
Disp	Display accuracy	maximum		± 0	0.5 %F.S. ± 2 co	unts (at 25 °C ± 5	°C)	
	Thermal error	ZERO maximum	± 0.1 %F.S./°C ± 2 counts		± 0.05 %F.S	./°C ± 2 counts		± 0.1 %F.S./°C ± 2 counts
	THEITHAI EITOI	SPAN			± 0.05 % Read	ing/°C ± 2 counts		
	Resolution					count		
	Additional function		Auto power off (3 min), Display hold, Battery replacement display					
	Accessories		Attachements : Half union (for a tube of φ 6 O.D.), and Barb fitting (for a tube of φ 4 I.D.), one piece each), one piece each.		

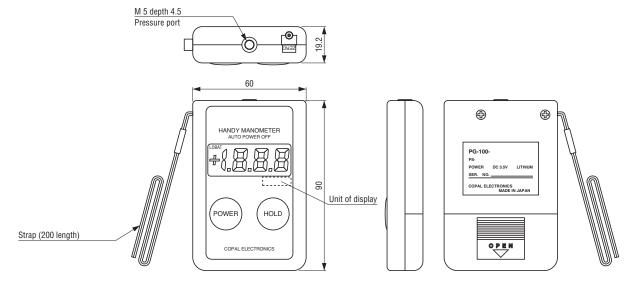
^{*1} Measurement can be made up to "- 760 mmHg" for 102VH and up to "760 mmHg" for 102GH and 102AH (Accuracy not guaranteed beyond the rated pressure).

■ ENVIRONMENTAL CHARACTERISTICS

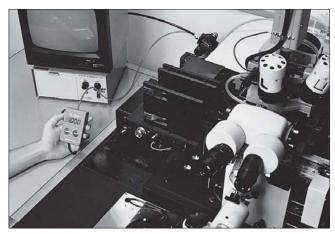
Test item	Test conditions (At 25 ± 5 °C)	Permissible change
Vibration	Amplitude 1.5 mm P-P, 10 ~ 55 Hz, 3 directions for 2 hours each (packed)	
Shock	98.1 m/s², 3 directions for 3 times each (packed)	Indicating accuracy: 1.1 % EC maximum
Pressure cycling	0 ~ Rated pressure, 106 cycles	Indicating accuracy: ± 1 %F.S. maximum
Moisture resistance	40 °C, 90 ~ 95 %RH, 240 hrs.	
EMC	EMI: EN 55011 Group 1, class B EMS: EN 50082-1 (1992)	

OUTLINE DIMENSIONS

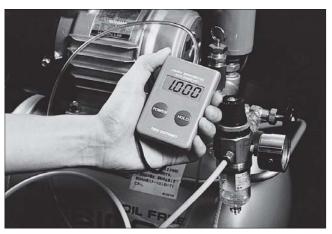
Unless otherwise specified, tolerance : \pm 0.5 (Unit: mm)



EXAMPLE OF APPLICATIONS



▲ Measurement of air pressure for a automatic machinery.



▲ Measurement of source pressure from a compressor.