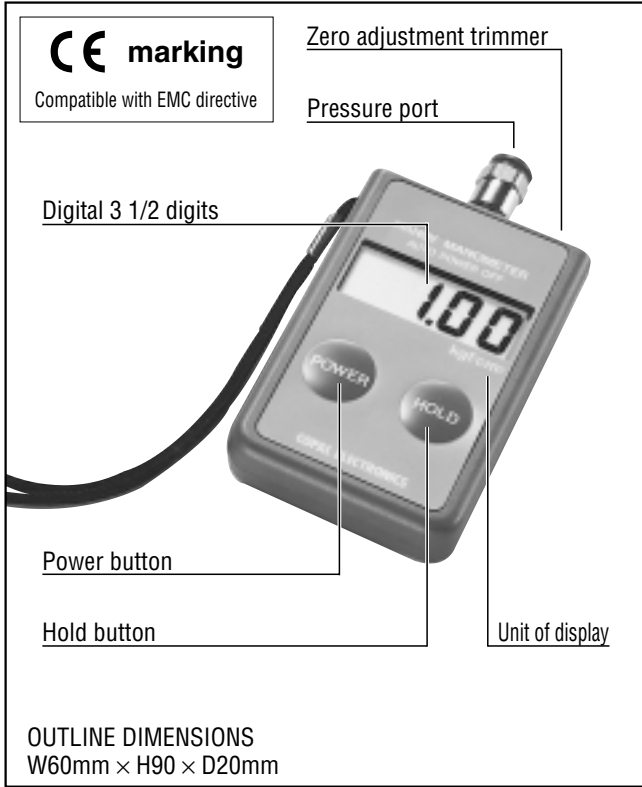


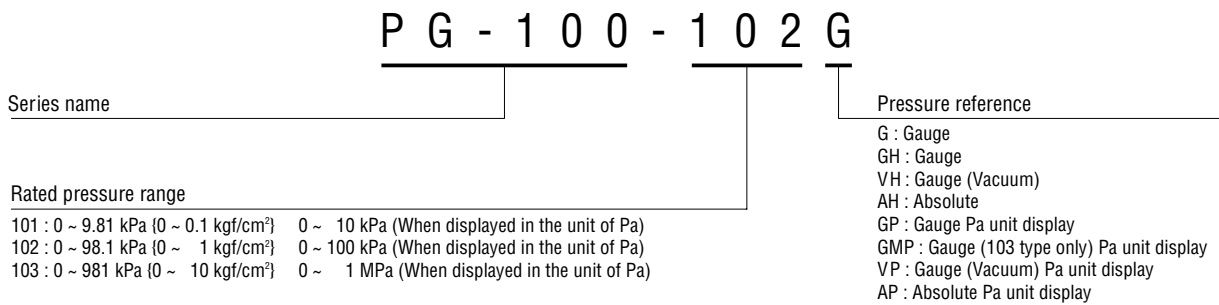
HANDY MANOMETER **PG-100**



■ FEATURES

- **Excellent stability**
State of the art sensor and circuit technology guarantees excellent temperature 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



Pressure gauges/
Pressure indicators

The new Japanese measurement Law of November 1993 prohibits the use of non SI units as from October 1999. The standard pressure unit used for the product manufactured and sold after October 1999 will become Pa.

* Please refer to the LIST OF MODEL NUMBERS when placing orders.

PG-100 PRESSURE GAUGES

■ LIST OF MODEL NUMBERS

<Existing models>

Pressure reference	Gauge					Absolute
Rated pressure range kPa {kgf/cm ² }	0 ~ 9.81 {0 ~ 1000 mmH ₂ O}	0 ~ 98.1 {0 ~ 1}	0 ~ 981 {0 ~ 10}	0 ~ 98.1 {0 ~ 735 mmHg}	0 ~ 98.1 {0 ~ 735 mmHg}	0 ~ 98.1 kPa abs {0 ~ 735 mmHg abs}
Unit of display	mmH ₂ O	kgf/cm ²		mmHg		
Part number	PG-100-101G	PG-100-102G	PG-100-103G	PG-100-102VH	PG-100-102GH	PG-100-102AH

<Version with unit in Pascal>

Pressure reference	Gauge				Absolute
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		

<Compound pressure type>

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

☐ : Not manufactured

* 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.)

* Please refer to the STANDARD SPECIFICATIONS when explaining full detail.

■ Specifications are subject to change without notice. Specifications in this catalog are for reference. The formal specification sheets will be submitted upon request.

STANDARD SPECIFICATIONS

<Existing models>

Item		PG-100						
General specifications	Pressure reference	Gauge					Absolute	
	Model number	101G	102G	103G	102VH	102GH	102AH	
	Rated pressure range	kPa {kgf/cm ² }	9.81 {1000 mmH ₂ O}	98.1 {1}	981 {10}	- 98.1 {- 735 mmHg}	98.1 {735 mmHg}	98.1 kPa abs {735 mmHg abs}
	Maximum pressure	kPa {kgf/cm ² }	19.6 {2000 mmH ₂ O}	196 {2}	1471 {15}	196 {1471 mmHg}		196 kPa abs {1471 mmHg abs}
	Break-down pressure	kPa {kgf/cm ² }	49.0 {5000 mmH ₂ O}	490 {5}	1961 {20}	490 {3678 mmHg}		490 kPa abs {3678 mmHg abs}
	Operating temp. range	°C	0 ~ 50					
	Compensated temp. range	°C	0 ~ 50					
	Operating humidity	% RH	35 ~ 85 (No condensation)					
	Storage temp.	°C	- 20 ~ 70 (Atmospheric pressure, humidity 65 %RH maximum)					
	Media		Non-corrosive gases					
	Pressure port		M5					
	Net weight	g	Approx. 100					
Power		Lithium battery DC3.6 V Battery life 3000 h minimum						
Display	No. of digits	3 1/2						
	Display element	LCD						
	Rated display range	000 ~ 1000 mmH ₂ O	.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 cycle	Approx. 3 times/s						
	Display accuracy	maximum	± 0.5 %F.S. ± 2 digit (at 25 °C ± 5 °C)					
	Thermal error	ZERO	maximum	± 0.1 %F.S./°C ± 2 digit	± 0.05 %F.S./°C ± 2 digit			± 0.1 %F.S./°C ± 2 digit
		SPAN		± 0.05 % Reading/°C ± 2 digit				
Resolution		1 digit						
Function		Auto power off (3 min), Display hold, Battery replacement display						
Accessories		Attachments : Half union (for a tube of φ 6 O.D.), and Barb fitting (for a tube of φ 4 I.D.), one piece each.						

*1 : Measurement can be made upto “- 760 mmHg” for 102VH and up to “760 mmHg” for 102GH and 102AH (Accuracy not guaranteed beyond the rated pressure).

Pressure gauges/
Pressure indicators

PG-100 PRESSURE GAUGES

STANDARD SPECIFICATIONS

<Version with unit in Pascal>

Item		PG-100				
General specifications	Pressure reference	Gauge				Absolute
	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
	Break-down pressure	kPa 50	500	2000	500	500 kPa abs
	Operating temp. range	°C	0 ~ 50			
	Compensated temp. range	°C	0 ~ 50			
	Operating humidity	% RH	35 ~ 85 (No condensation)			
	Storage temp.	°C	- 20 ~ 70 (Atmospheric pressure, humidity 65 %RH maximum)			
	Media		Non-corrosive gases			
	Pressure port		M 5			
	Net weight	g	Approx. 100			
	Power		Lithium battery DC3.6 V Battery life 3000 h minimum			
Display	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 cycle	Approx. 3 times/s				
	Display accuracy	maximum	± 0.5 %F.S. ± 2 digit (at 25 °C ± 5 °C)			
	Thermal error	ZERO maximum	± 0.1 %F.S./°C ± 2 digit	± 0.05 %F.S./°C ± 2 digit		± 0.1 %F.S./°C ± 2 digit
		SPAN	± 0.05 % Reading/°C ± 2 digit			
Resolution		1 digit				
Function		Auto power off (3 min), Display hold, Battery replacement display				
Accessories		Attachments : Half union (for a tube of φ 6 O.D.),and Barb fitting (for a tube of φ 4 I.D.), one piece each.				

STANDARD SPECIFICATIONS

<Compound pressure type>

Item		PG-100			
General specifications	Pressure reference	Gauge			
	Model number	101RP	102RP	103RP	
	Rated pressure range	kPa - 10 ~ 10	- 100 ~ 100	- 100 ~ 1000	
	Maximum pressure	kPa 20	200	1500	
	Break-down pressure	kPa 50	500	2000	
	Operating temp. range	°C	0 ~ 50		
	Compensated temp. range	°C	0 ~ 50		
	Operating humidity	% RH	35 ~ 85 (No condensation)		
	Storage temp.	°C	- 20 ~ 70 (Atmospheric pressure, humidity 65 %RH maximum)		
	Media		Non-corrosive gases		
	Pressure port		M 5		
	Net weight	g	Approx. 100		
	Power		Lithium batteryDC3.6 V Battery life 3000 h minimum		
Display	No. of digits	3 1/2			
	Display element	LCD			
	Rated display range	- 10.00 ~ 10.00	- 100.0 ~ 100.0	- 100 ~ 1000	
	Display cycle	Approx. 3 times/s			
	Display accuracy (at 25 °C ± 5 °C)	± 1 %F.S. ± 2 digit	± 0.5 %F.S. ± 2 digit		
	Thermal error	ZERO maximum	± 0.1 %F.S./°C ± 2 digit	± 0.05 %F.S./°C ± 2 digit	
		SPAN	± 0.05 % Reading/°C ± 2 digit		
	Resolution	1 digit			
Function	Auto power off (3 min), Display hold, Battery replacement display				
Accessories	Attachments : Half union (for a tube of φ 6 O.D.), and, Barb fitting (for a tube of φ 4 I.D.), one piece each.				

Pressure gauges/
Pressure indicators

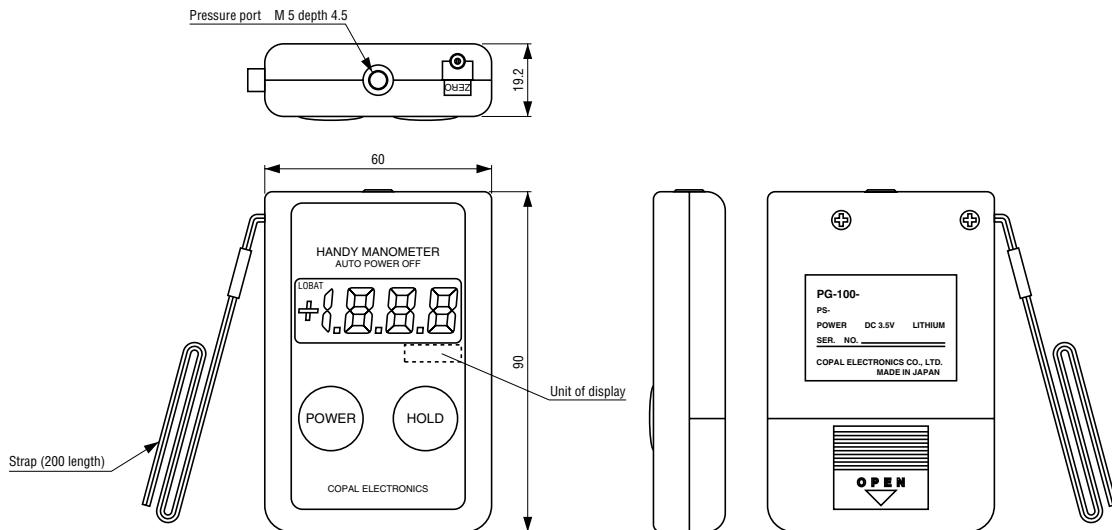
PG-100 PRESSURE GAUGES

ENVIRONMENTAL CHARACTERISTICS

Test item	Test condition	Permissible change
Vibration	Amplitude 1.5 mm P-P, 10 ~ 55 Hz, 3 directions for 2 hours each (packed)	Indicating accuracy: ± 1 %F.S. maximum
Shock	98.1 m/s ² , 3 directions for 3 times each (packed)	
Pressure cycling	0 ~ Rated pressure, 10 ⁶ cycles	
Humidity	40 °C, 90 ~ 95 %RH, 240 h	
EMC	EMI: EN 550011 Group 1, class B (1991) EMS: EN 50082-1 (1992)	

OUTLINE DIMENSIONS

Unless otherwise specified, tolerance : ± 0.5 (Unit: mm)



Pressure gauges/
Pressure indicators

EXAMPLE OF APPLICATIONS



▲ Measurement of air pressure for a automatic machinery.



▲ Measurement of source pressure from a compressor.