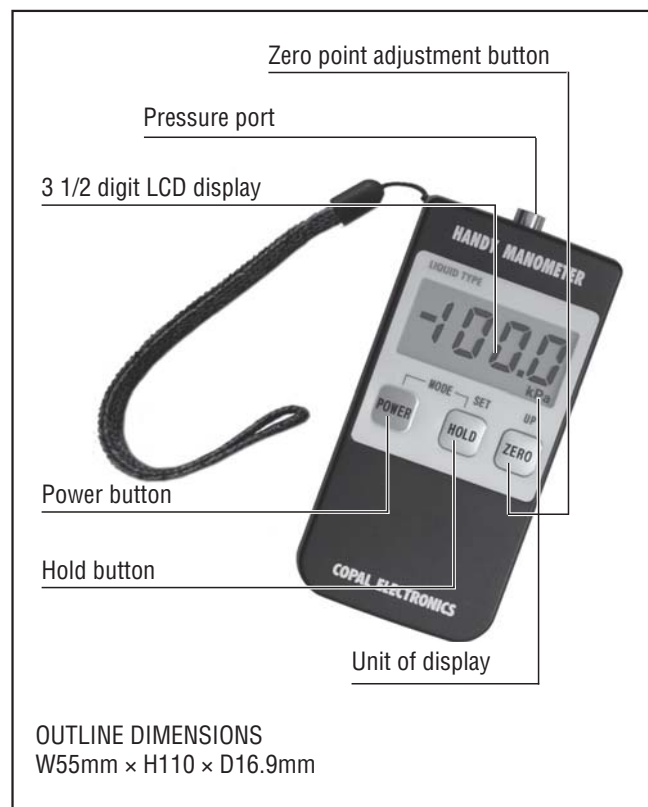


HANDHELD DIGITAL MANOMETER

PG-100B



FEATURES

- **New lineup of PG-100 series for measuring gas and liquid pressure**
- **Capable of measuring Absolute pressure (PG-100B-102A)**
- **Excellent stability**
High precision semiconductor chip combined with temperature compensation circuit guarantee excellent stability.
- **Long battery life**
Lasts more than 1000hrs with two AAA dry batteries.
- **Automatic power off function**
- **Easy, one-handed operation**
- **Easy-to-read large LCD display**
- **Pressure unit selectable type also available (PG-100B-****-W).**

MODEL NUMBER DESIGNATION

P G - 1 0 0 B - 1 0 2 R - M X 2 T			
Series name			Traceability system chart Blank : Not attached T : Traceability system chart
Rated pressure range			
Pressure reference			Inspection report / Calibration Certificate Blank : Not attached X1 : Inspection report X2 : Inspection report and Calibration certificate
102R : - 100 ~ 100 kPa Gauge(Compound)			
103R : - 100 ~ 1000 kPa Gauge(Compound)			
102A : 0 ~ 100 kPa abs			
		Unit of display	
		Blank : kPa	
		M : MPa	
		H : mmHg ^{※1}	
		W : Selectable(bar, psi, inch Hg, mmHg, kPa, MPa according to the pressure range) ^{※2}	

LIST OF MODEL NUMBERS

Pressure reference	Gauge(Compound)		Absolute
Rated pressure range (kPa)	-100 ~ 100	-100 ~ 1000	0 ~ 100 (abs)
kPa	PG-100B-102R- ***	PG-100B-103R- ***	PG-100B-102A- ***
MPa		PG-100B-103R-M **	
mmHg	PG-100B-102R-H **		
Selectable	PG-100B-102R-W **	PG-100B-103R-W **	PG-100B-102A-W ***

PG-100B

HANDHELD DIGITAL MANOMETER

STANDARD SPECIFICATIONS

<kPa version>

● Unless otherwise specified, the specs are defined at an ambient temperature of $25 \pm 5^\circ\text{C}$.

Item		PG-100B			
General specifications	Pressure reference	Gauge		Absolute	
	Model number	102R	103R	102A	
	Rated pressure range	kPa	– 100 ~ 100	– 100 ~ 1000	0 ~ 100 kPa abs
	Maximum pressure	kPa	200	2000	200 kPa abs
	Break-down pressure	kPa	300	3000	300 kPa abs
	Operating temp. range	°C	0 ~ 50		
	Compensated temp. range	°C	0 ~ 50		
	Operating humidity	% RH	15 ~ 85 (No condensation)		
	Storage temp.	°C	– 20 ~ 70 (Atmospheric pressure, humidity 65 %RH maximum)		
	Pressure medium		Gases/liquids compatible with SUS316L		
	Pressure port		M 5 female		
	Net weight	g	Approx. 100		
	Power		AAA dry battery DC 1.5 V × 2 Battery life 1000 h minimum		
	Display	No. of digits	3 1/2		
Display element		LCD			
Rated display range		– 100.0 ~ 100.0	– 100 ~ 1000 –. 100 ~ 1.000 (MPa)	00.0 ~ 100.0	
Display cycle		Approx. 4 times/s			
Integrated accuracy		± 0.5 %F.S. ± 2 digits (at 25 °C ± 5 °C)			
		± 1.0 %F.S. ± 2 digits (at 25 °C ± 25 °C)	± 2.0 %F.S. ± 2 digits (at 25 °C ± 25 °C)		
Resolution		1 digit			
Analog output	Power supply (External supply)	5 ± 0.5 V DC 5 mA maximum			
	Output voltage	0 ~ ± 1.000 V ※ Proportionate to display value			
	Output accuracy / Resolution	± 10 mV / 1mV			
	Output resistance	Approx. 10 kΩ			
	Response	Approx. 10 ms			
	Additional function	Auto power off, Display hold, Battery replacement display(LOBAT), Zero point adjustment			
	Accessories	Fitting (half union for 6mm OD tube), 2 AAA batteries, strap, protective cover			
	Option (Sold seperately)	PG-100B soft carrying case			

PG-100B

HANDHELD DIGITAL MANOMETER

STANDARD SPECIFICATIONS

<Non SI unit version>

● Unless otherwise specified, the specs are defined at an ambient temperature of 25 ± 5 °C.

Item		PG-100B
General specifications	Pressure reference	Gauge
	Model number(mmHg display : compound)	102R-H
	Rated pressure range kPa (mmHg)	- 100 ~ 100 (- 750 ~ 750)
	Maximum pressure kPa (mmHg)	200 (1500)
	Break-down pressure kPa (mmHg)	300 (2250)
	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)
	Pressure medium	Gases/liquids compatible with SUS316L
	Pressure port	M 5 female
	Net weight g	Approx. 100
	Power	AAA dry battery DC 1.5 V × 2 Battery life 1000 h minimum
Display	No. of digits	3 1/2
	Display element	LCD
	Rated display range(mmHg display)	- 750 ~ 750
	Display cycle	Approx. 4 times/s
	Integrated accuracy	± 0.5 %F.S. ± 2 digits (at 25 °C ± 5 °C)
		± 1.0 %F.S. ± 2 digits (at 25 °C ± 25 °C)
	Resolution	1 digit
Analog output	Power supply (External supply)	5 ± 0.5 V DC 5 mA maximum
	Output voltage	$0 \sim \pm 1.000$ V ※ Proportionate to display value
	Output accuracy / Resolution	± 10 mV / 1 mV
	Output resistance	Approx. 10 kΩ
	Response	Approx. 10 ms
	Additional function	Auto power off , Display hold, Battery replacement display(LOBAT), Zero point adjustment
	Accessories	Fitting (half union for 6mm OD tube), 2 AAA batteries, strap, protective cover
	Option (Sold seperately)	PG-100B soft carrying case

PG-100B

HANDHELD DIGITAL MANOMETER

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)	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	
Moisture resistance	40 °C, 90 ~ 95 %RH, 240 hrs.	

OUTLINE DIMENSIONS

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

