HANDHELD DIGITAL MANOMETER PG-100B

OUTLINE DIMENSIONS
W55mm × H110 × D16.9mm

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 X2 T

Series name

Rated pressure range
Pressure reference
102R : – 100 ~ 100 kPa Gauge(Compound)
103R : – 100 ~ 1000 kPa Gauge(Compound)
102A : 0 ~ 100 kPa abs

Traceability system chart
Blank : Not attached
T : Traceability system chart

Inspection report / Calibration Certificate
Blank : Not attached
X1 : Inspection report
X2 : Inspection report and Calibration certificate

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 ± 5 °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〉

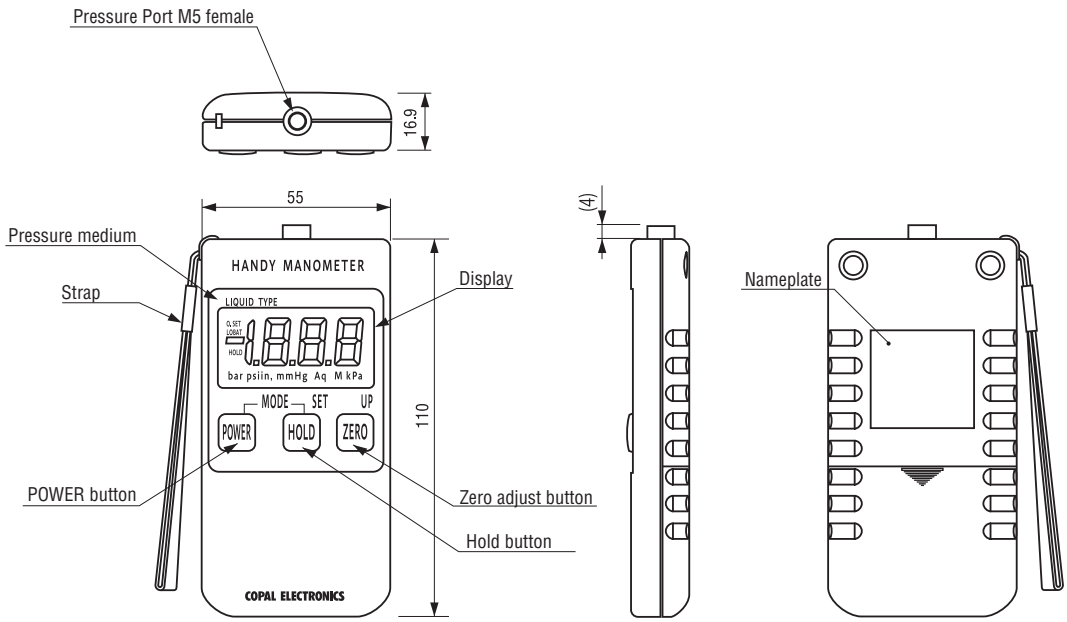
● Unless otherwise specified, the specs are defined at an ambient temperature of 25 ± 5 °C.

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 ~ ± 1.000 V ※ Proportionate to display value
	Output accuracy / Pesolution		± 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/s², 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)