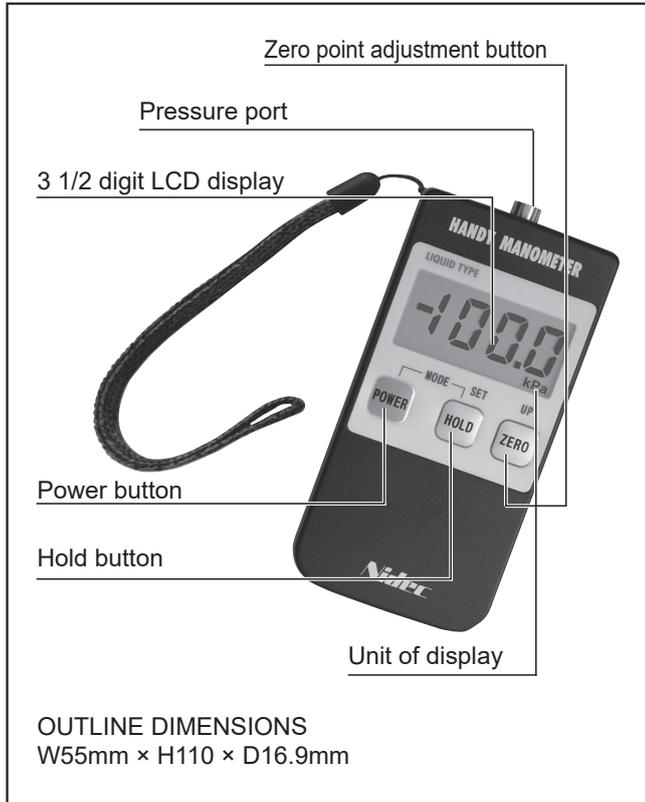


# HANDHELD DIGITAL MANOMETERS **PG-100B**



## 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 3 R - M X 2 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 Absolute

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\*  
W : Selectable(bar, psi, inch Hg, mmHg, kPa, MPa according to the pressure range)\*

※ : 103R range products do not correspond to Unit mmHg of Pressure unit selectable W type.  
(Refer to the Pressure unit selectable W type below.)

## Pressure unit selectable W type

Pressure range	Unit selectable W type						
	kPa	Mpa	mmHg	in.Hg	mmAq	psi	bar
102R	○	○	○	○	—	○	○
103R	○	○	—	○	—	○	○
102A	○	○	○	○	—	○	○

※ " — " is not supported as a display unit.

# PG-100B

## HANDHELD DIGITAL MANOMETERS

### LIST OF MODEL NUMBERS 〈For non-corrosive gas〉

Pressure reference		Gauge(Compound)		Absolute
Rated pressure range (kPa)		-100~100	-100~1000	0 ~ 100(abs)
kPa	Product only	PG-100B-102R	PG-100B-103R	PG-100B-102A
	Inspection report	PG-100B-102R-X1	PG-100B-103R-X1	PG-100B-102A-X1
	Inspection report and Traceability system chart	PG-100B-102R-X1T	PG-100B-103R-X1T	PG-100B-102A-X1T
	Inspection report and Calibration certificate	PG-100B-102R-X2	PG-100B-103R-X2	PG-100B-102A-X2
	Traceability system chart	PG-100B-102R-T	PG-100B-103R-T	PG-100B-102A-T
	Inspection report, Calibration certificate and Traceability system chart	PG-100B-102R-X2T	PG-100B-103R-X2T	PG-100B-102A-X2T
MPa	Product only	/	PG-100B-103R-M	/
	Inspection report		PG-100B-103R-M-X1	
	Inspection report and Traceability system chart		PG-100B-103R-M-X1T	
	Inspection report and Calibration certificate		PG-100B-103R-M-X2	
	Traceability system chart		PG-100B-103R-M-T	
	Inspection report, Calibration certificate and Traceability system chart		PG-100B-103R-M-X2T	
mmHg	Product only	PG-100B-102R-H	/	/
	Inspection report	PG-100B-102R-H-X1		
	Inspection report and Traceability system chart	PG-100B-102R-H-X1T		
	Inspection report and Calibration certificate	PG-100B-102R-H-X2		
	Traceability system chart	PG-100B-102R-H-T		
	Inspection report, Calibration certificate and Traceability system chart	PG-100B-102R-H-X2T		
Selectable	Product only	PG-100B-102R-W	PG-100B-103R-W	PG-100B-102A-W
	Inspection report	PG-100B-102R-W-X1	PG-100B-103R-W-X1	PG-100B-102A-W-X1
	Inspection report and Traceability system chart	PG-100B-102R-W-X1T	PG-100B-103R-W-X1T	PG-100B-102A-W-X1T
	Inspection report and Calibration certificate	PG-100B-102R-W-X2	PG-100B-103R-W-X2	PG-100B-102A-W-X2
	Traceability system chart	PG-100B-102R-W-T	PG-100B-103R-W-T	PG-100B-102A-W-T
	Inspection report, Calibration certificate and Traceability system chart	PG-100B-102R-W-X2T	PG-100B-103R-W-X2T	PG-100B-102A-W-X2T

# PG-100B

## HANDHELD DIGITAL MANOMETERS

### 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	$^\circ\text{C}$	0 ~ 50		
	Compensated temp. range	$^\circ\text{C}$	0 ~ 50		
	Operating humidity	% RH	15 ~ 85 ( No condensation)		
	Storage temp.	$^\circ\text{C}$	- 20 ~ 70 (Atmospheric pressure, humidity 65 %RH maximum)		
	Pressure medium		Gases/liquids compatible with SUS316L		
	Pressure port		M5 female		
	Net weight	g	Approx. 100		
	Power		AAA dry battery DC 1.5 V $\times$ 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		$\pm 0.5\%$ F.S. $\pm 2$ digits (at $25^\circ\text{C} \pm 5^\circ\text{C}$ )			
		$\pm 1.0\%$ F.S. $\pm 2$ digits (at $25^\circ\text{C} \pm 25^\circ\text{C}$ )	$\pm 2.0\%$ F.S. $\pm 2$ digits (at $25^\circ\text{C} \pm 25^\circ\text{C}$ )		
Resolution	1 digit				
Analog output	Power supply (External supply)	$5 \pm 0.5$ VDC 5 mA maximum			
	Output voltage	0 ~ $\pm 1.000$ V ※ Proportionate to display value			
	Output accuracy / Resolution	$\pm 10$ mV / 1mV			
	Output resistance	Approx. 10 k $\Omega$			
	Response	Approx. 10 ms			
Additional function	Additional function	Auto power off, Display hold, Battery replacement display(LOBAT), Zero point adjustment			
	Accessories	One-touch fitting for $\phi 6$ mm, Insert ring, 2 AAA batteries, strap, protective cover			
	Option (Sold seperately)	PG-100B soft carrying case			

# PG-100B

## HANDHELD DIGITAL MANOMETERS

### STANDARD SPECIFICATIONS

〈Non SI unit version〉

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

Item		PG-100B
General specifications	Pressure reference	Gauge
	Model number(mmHg display : compound)	102R-H
	Rated pressure range	$-100 \sim 100$ ( $-750 \sim 750$ )
	Maximum pressure	200 (1500)
	Break-down pressure	300 (2250)
	Operating temp. range	$0 \sim 50$
	Compensated temp. range	$0 \sim 50$
	Operating humidity	$35 \sim 85$ ( No condensation)
	Storage temp.	$-20 \sim 70$ (Atmospheric pressure, humidity 65 %RH maximum)
	Pressure medium	Gases/liquids compatible with SUS316L
	Pressure port	M5 female
	Net weight	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)	$-750 \sim 750$
	Display cycle	Approx. 4 times/s
	Integrated accuracy	$\pm 0.5$ %F.S. $\pm 2$ digits (at $25$ °C $\pm 5$ °C)
		$\pm 1.0$ %F.S. $\pm 2$ digits (at $25$ °C $\pm 25$ °C)
Resolution	1 digit	
Analog output	Power supply (External supply)	$5 \pm 0.5$ VDC 5 mA maximum
	Output voltage	$0 \sim \pm 1.000$ V ※ Proportionate to display value
	Output accuracy / Resolution	$\pm 10$ mV / 1 mV
	Output resistance	Approx. 10 k $\Omega$
	Response	Approx. 10 ms
Additional function	Additional function	Auto power off , Display hold, Battery replacement display(LOBAT), Zero point adjustment
	Accessories	One-touch fitting for $\phi 6$ mm, Insert ring, 2 AAAbatteries, strap, protective cover
	Option (Sold seperately)	PG-100B soft carrying case

# PG-100B

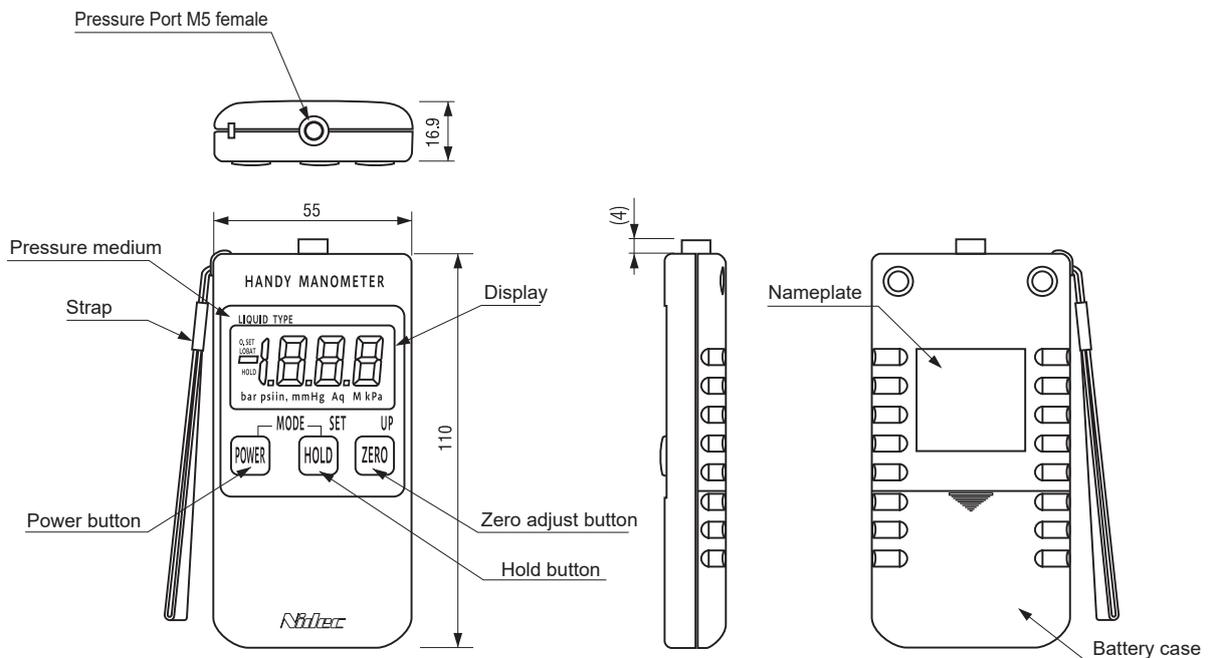
## HANDHELD DIGITAL MANOMETER

### 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 <sup>2</sup> , 3 directions for 3 times each (packed)	
Pressure cycling	0 ~ Rated pressure, 10 <sup>6</sup> cycles	
Moisture resistance	40 °C, 90 ~ 95 %RH, 240 hrs.	

### OUTLINE DIMENSIONS

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



### OPTION

The soft carrying case for PG-100B Order item: PG-100 soft carrying case (Useful for when carrying out and keeping.)

