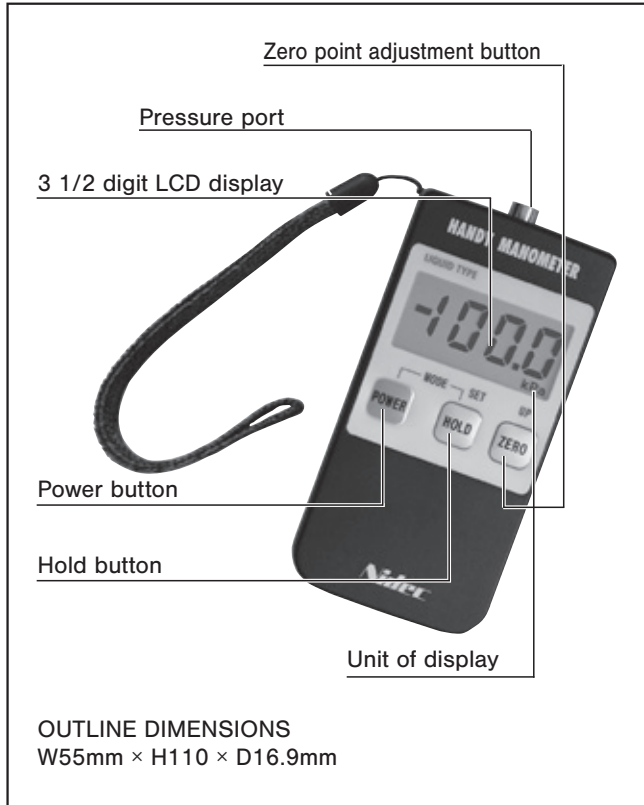


# HANDHELD DIGITAL MANOMETER

# 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

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  
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 MANOMETER

### 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 MANOMETER

### STANDARD SPECIFICATIONS

〈kPa version〉

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

Item		PG-100B			
General specifications	Pressure reference	<b>Gauge</b>		<b>Absolute</b>	
	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		M5 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		$\pm 0.5$ %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)		$\pm 2.0$ %F.S. $\pm 2$ digits (at 25 °C $\pm 25$ °C)	
Resolution		1 digit			
Analog output	Power supply (External supply)	$5 \pm 0.5$ V DC 5 mA maximum			
	Output voltage	$0 \sim \pm 1.000$ V ※ Proportionate to display value			
	Output accuracy / Resolution	$\pm 10$ mV / 1mV			
	Output resistance	Approx. 10 kΩ			
	Response	Approx. 10 ms			
Additional function	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  $25 \pm 5$  °C.

Item		PG-100B	
General specifications	Pressure reference	Gauge	
	Model number(mmHg display : compound)	102R-H	
	Rated pressure range	- 100 ~ 100 (- 750 ~ 750)	
	Maximum pressure	200 (1500)	
	Break-down pressure	300 (2250)	
	Operating temp. range	0 ~ 50	
	Compensated temp. range	0 ~ 50	
	Operating humidity	35 ~ 85 (No condensation)	
	Storage temp.	- 20 ~ 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 ~ 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)	$5 \pm 0.5$ V DC 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 kΩ	
	Response	Approx. 10 ms	
Additional function	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

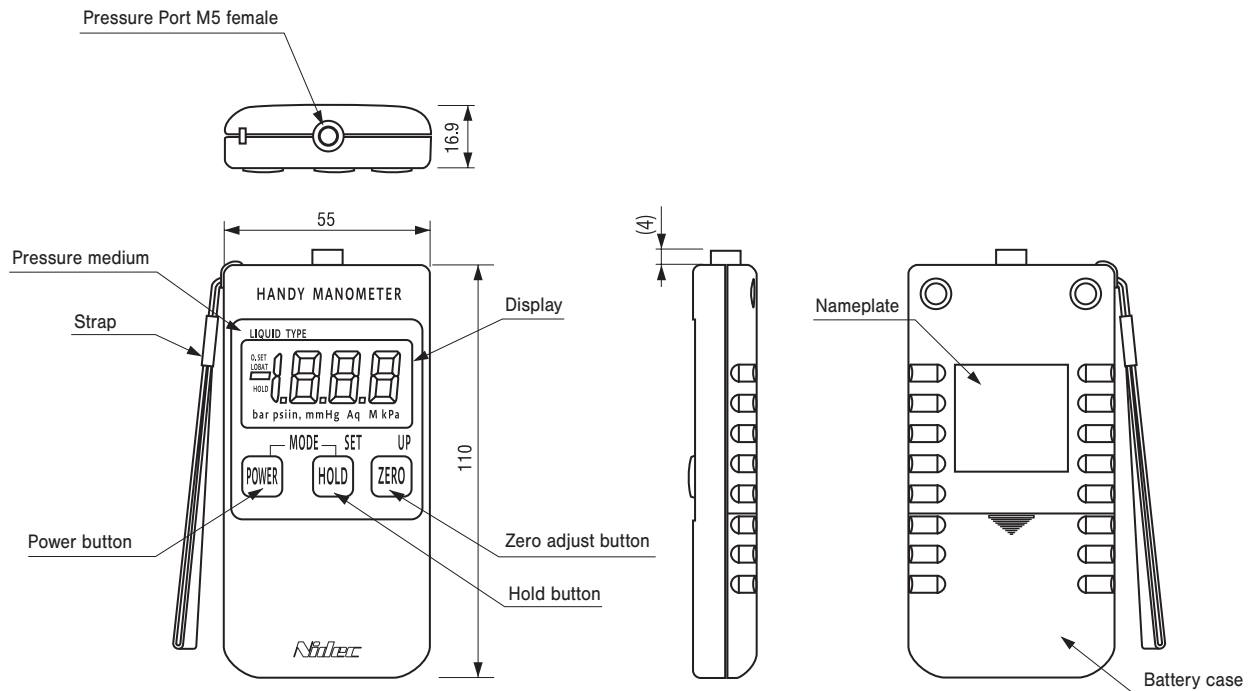
## HANDHELD DIGITAL MANOMETER

### 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 <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.)

