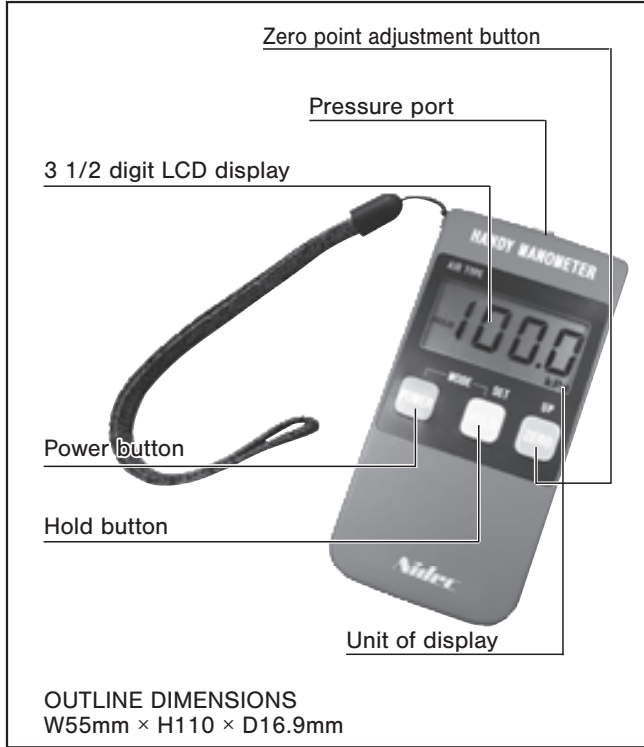


# HANDHELD DIGITAL MANOMETER

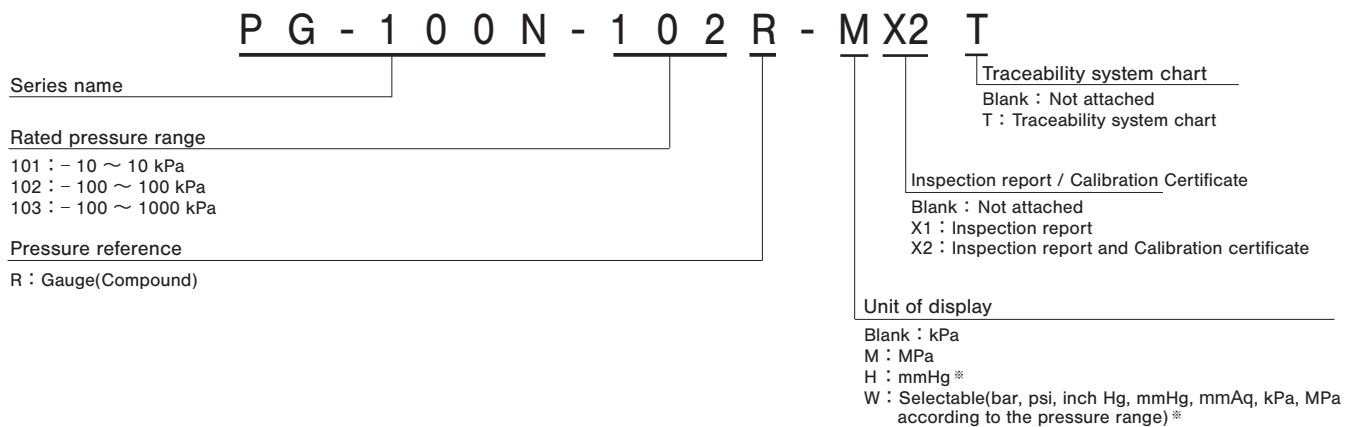
# PG-100N



## FEATURES

- **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-100N-\*\*\*\*-W).**

## MODEL NUMBER DESIGNATION



※ : 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
101R	○	—	○	○	○	○	○
102R	○	○	○	○	—	○	○
103R	○	○	—	○	—	○	○

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

# PG-100N

## HANDHELD DIGITAL MANOMETER

### LIST OF MODEL NUMBERS <For non-corrosive gas>

Pressure reference		Gauge(Compound)		
Rated pressure range (kPa)		-10 ~ 10	-100 ~ 100	-100 ~ 1000
kPa	Product only	PG-100N-101R	PG-100N-102R	PG-100N-103R
	Inspection report	PG-100N-101R-X1	PG-100N-102R-X1	PG-100N-103R-X1
	Inspection report and Traceability system chart	PG-100N-101R-X1T	PG-100N-102R-X1T	PG-100N-103R-X1T
	Inspection report and Calibration certificate	PG-100N-101R-X2	PG-100N-102R-X2	PG-100N-103R-X2
	Traceability system chart	PG-100N-101R-T	PG-100N-102R-T	PG-100N-103R-T
	Inspection report, Calibration certificate and Traceability system chart	PG-100N-101R-X2T	PG-100N-102R-X2T	PG-100N-103R-X2T
MPa	Product only	/	/	PG-100N-103R-M
	Inspection report			PG-100N-103R-M-X1
	Inspection report and Traceability system chart			PG-100N-103R-M-X1T
	Inspection report and Calibration certificate			PG-100N-103R-M-X2
	Traceability system chart			PG-100N-103R-M-T
	Inspection report, Calibration certificate and Traceability system chart			PG-100N-103R-M-X2T
mmHg	Product only	/	/	PG-100N-102R-H
	Inspection report			PG-100N-102R-H-X1
	Inspection report and Traceability system chart			PG-100N-102R-H-X1T
	Inspection report and Calibration certificate			PG-100N-102R-H-X2
	Traceability system chart			PG-100N-102R-H-T
	Inspection report, Calibration certificate and Traceability system chart			PG-100N-102R-H-X2T
Selectable	Product only	PG-100N-101R-W	PG-100N-102R-W	PG-100N-103R-W
	Inspection report	PG-100N-101R-W-X1	PG-100N-102R-W-X1	PG-100N-103R-W-X1
	Inspection report and Traceability system chart	PG-100N-101R-W-X1T	PG-100N-102R-W-X1T	PG-100N-103R-W-X1T
	Inspection report and Calibration certificate	PG-100N-101R-W-X2	PG-100N-102R-W-X2	PG-100N-103R-W-X2
	Traceability system chart	PG-100N-101R-W-T	PG-100N-102R-W-T	PG-100N-103R-W-T
	Inspection report, Calibration certificate and Traceability system chart	PG-100N-101R-W-X2T	PG-100N-102R-W-X2T	PG-100N-103R-W-X2T

# PG-100N

## 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-100N			
General specifications	Pressure reference	Gauge			
	Model number	101R	102R	103R	
	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	$^\circ\text{C}$	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		Non-corrosive gases		
	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	- 10.00 ~ 10.00	- 100.0 ~ 100.0	- 100 ~ 1000 - .100 ~ 1.000 (MPa)	
	Display cycle	Approx. 4 times/s			
	Integrated accuracy	$\pm 0.5\% \text{F.S.} \pm 2 \text{ digits (at } 25^\circ\text{C} \pm 5^\circ\text{C)}$			
		$\pm 1.5\% \text{F.S.} \pm 2 \text{ digits (at } 25^\circ\text{C} \pm 25^\circ\text{C)}$	$\pm 1.0\% \text{F.S.} \pm 2 \text{ digits (at } 25^\circ\text{C} \pm 25^\circ\text{C)}$		
Resolution	1 digit				
Analog output	Power supply (External supply)	$5 \pm 0.5 \text{ V DC } 5 \text{ mA maximum}$			
	Output voltage	$0 \sim \pm 1.000 \text{ V}$ ※ Proportionate to display value			
	Output accuracy / Resolution	$\pm 10 \text{ mV} / 1\text{mV}$			
	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	2 fittings (half union for 6mm OD tube, barb fitting for 4mm OD tube), 2 AAA batteries, strap			
	Option (Sold seperately)	PG-100N soft carrying case			

# PG-100N

## HANDHELD DIGITAL MANOMETER

### STANDARD SPECIFICATIONS

〈Non SI unit version〉

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

Item		PG-100N	
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	500 (3750)	
	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	Non-corrosive gases	
	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			$\pm 0.5\% \text{F.S.} \pm 2 \text{ digits (at } 25^\circ\text{C} \pm 5^\circ\text{C)}$
			$\pm 1.0\% \text{F.S.} \pm 2 \text{ digits (at } 25^\circ\text{C} \pm 25^\circ\text{C)}$
Resolution	1 digit		
Analog output	Power supply (External supply)	$5 \pm 0.5 \text{ V DC } 5 \text{ mA maximum}$	
	Output voltage	$0 \sim \pm 1.000 \text{ V}$ ※ Proportionate to display value	
	Output accuracy / Resolution	$\pm 10 \text{ mV} / 1 \text{ mV}$	
	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	2 fittings (half union for 6mm OD tube, barb fitting for 4mm OD tube), 2 AAA batteries, strap	
	Option (Sold seperately)	PG-100N soft carrying case	

# PG-100N

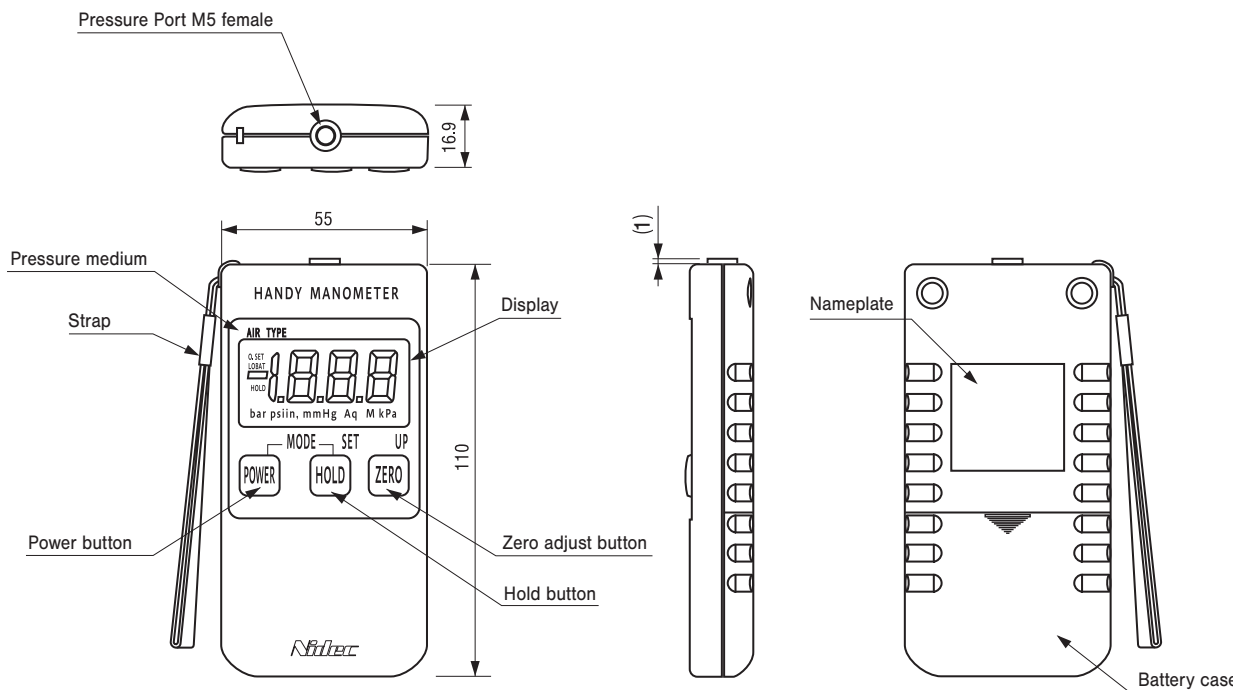
## HANDHELD DIGITAL MANOMETER

### 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-100N – Order item: PG-100 soft carrying case (Useful for when carrying out and keeping.)

