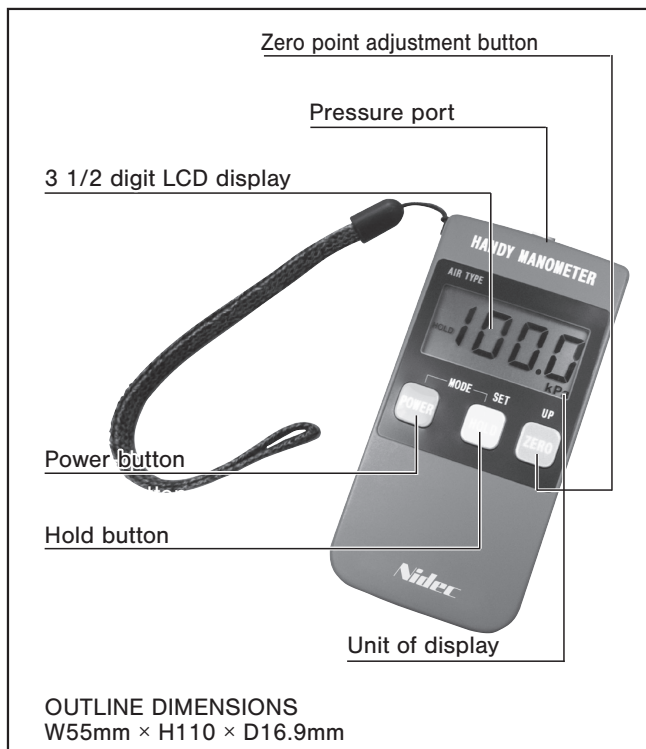


# HANDHELD DIGITAL MANOMETER

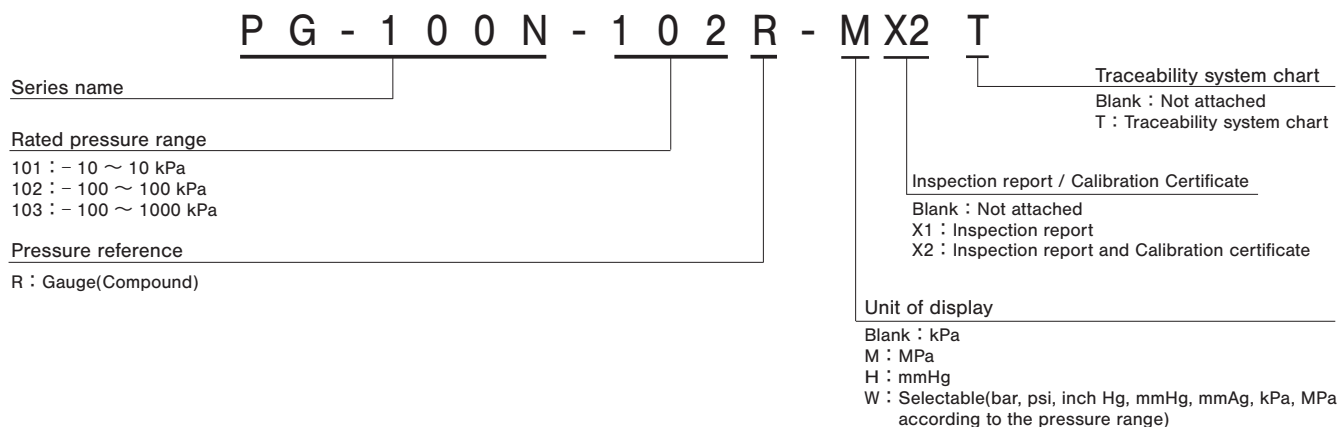
# PG-100N



## 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



## LIST OF MODEL NUMBERS (For non-corrosive gas)

Pressure reference		Gauge		
Rated pressure range (kPa)		- 10 ~ 10	- 100 ~ 100	- 100 ~ 1000
Model number	Unit of display : kPa	PG-100N-101R- * * *	PG-100N-102R- * * *	PG-100N-103R- * * *
	Unit of display : MPa	—	—	PG-100N-103R-M * *
	Unit of display : mmHg	PG-100N-101R-H * *	PG-100N-102R-H * *	—
	Selectable	PG-100N-101R-W * *	PG-100N-102R-W * *	PG-100N-103R-W * *

# 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	<b>Gauge</b>		
	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	°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		Non-corrosive gases	
	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	- 10.00 ~ 10.00	- 100.0 ~ 100.0	- 100 ~ 1000 - 100 ~ 1000 (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	$0 \sim \pm 1.000 \text{ V} \quad \text{※ Proportionate to display value}$		
	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

### 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)	101R-H	102R-H	
	Rated pressure range	kPa (mmHg)	- 10 ~ 10 (- 75.0 ~ 75.0)	- 100 ~ 100 (- 750 ~ 750)
	Maximum pressure	kPa (mmHg)	20 (150)	200 (1500)
	Break-down pressure	kPa (mmHg)	50 (375)	500 (3750)
	Operating temp. range	$^\circ\text{C}$	0 ~ 50	
	Compensated temp. range	$^\circ\text{C}$	0 ~ 50	
	Operating humidity	% RH	35 ~ 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(mmHg display)	- 75.0 ~ 75.0	- 750 ~ 750	
	Display cycle	Approx. 4 times/s		
	Integrated accuracy	$\pm 0.5\% \text{F.S.} \pm 2 \text{ digits (at } 25^\circ\text{C} \pm 5^\circ\text{C)}$		
		$\pm 1.5\% \text{F.S.} \pm 2 \text{ digits (at } 25^\circ\text{C} \pm 25^\circ\text{C)}$	$\pm 1.0\% \text{F.S.} \pm 2 \text{ digits (at } 25^\circ\text{C} \pm 25^\circ\text{C)}$	
	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

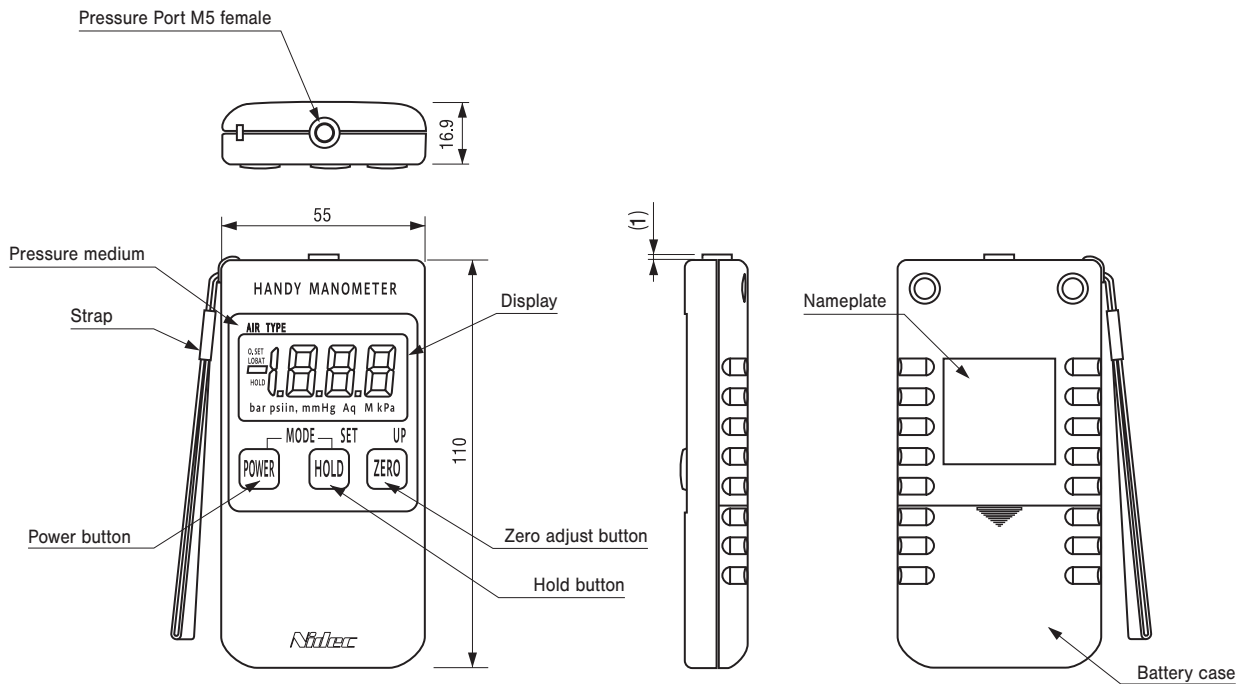
## HANDHELD DIGITAL MANOMETER

### 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.)

