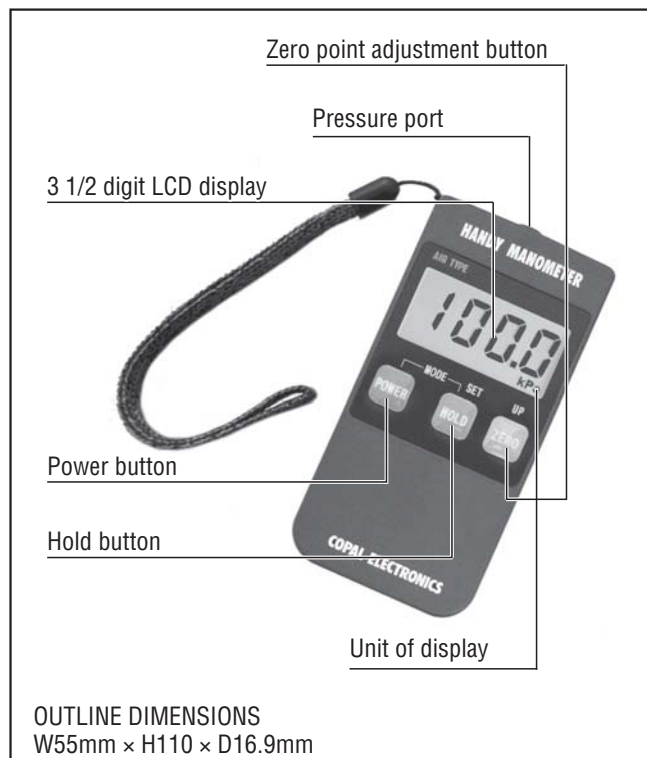


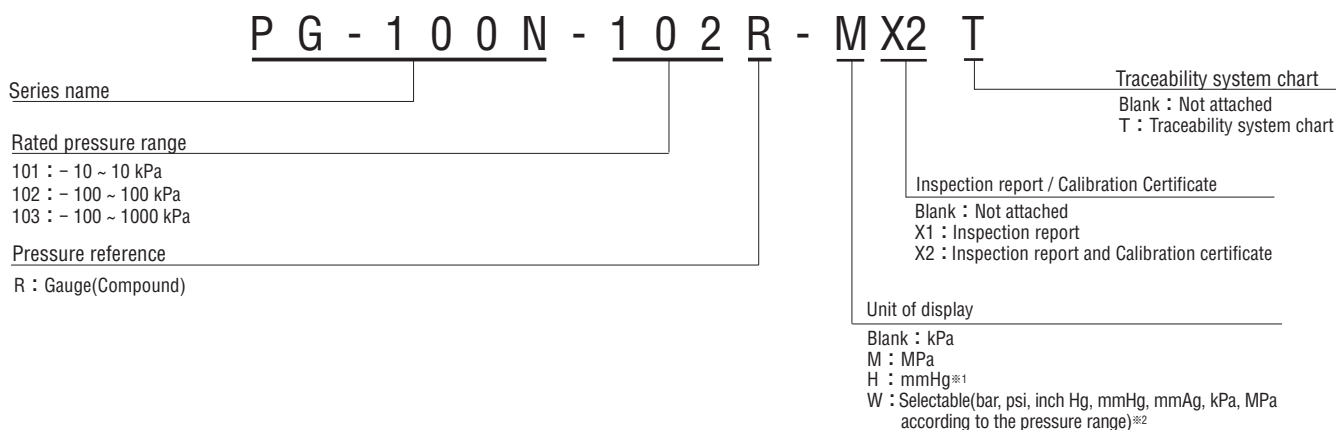
# HANDHELD DIGITAL MANOMETER **PG-100N**



## 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  $25 \pm 5$  °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	°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		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	- 10.00 ~ 10.00	- 100.0 ~ 100.0	- 100 ~ 1000 - .100 ~ 1.000 (MPa)	
	Display cycle	Approx. 4 times/s			
	Integrated accuracy	$\pm 0.5$ %F.S. $\pm 2$ digits (at 25 °C $\pm 5$ °C)			
		$\pm 1.5$ %F.S. $\pm 2$ digits (at 25 °C $\pm 25$ °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 ~ $\pm 1.000$ 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	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  $25 \pm 5$  °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 °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	Non-corrosive gases	
	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)	- 75.0 ~ 75.0	- 750 ~ 750
	Display cycle	Approx. 4 times/s	
	Integrated accuracy	$\pm 0.5$ %F.S. $\pm 2$ digits (at $25$ °C $\pm 5$ °C)	
		$\pm 1.5$ %F.S. $\pm 2$ digits (at $25$ °C $\pm 25$ °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	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)

