



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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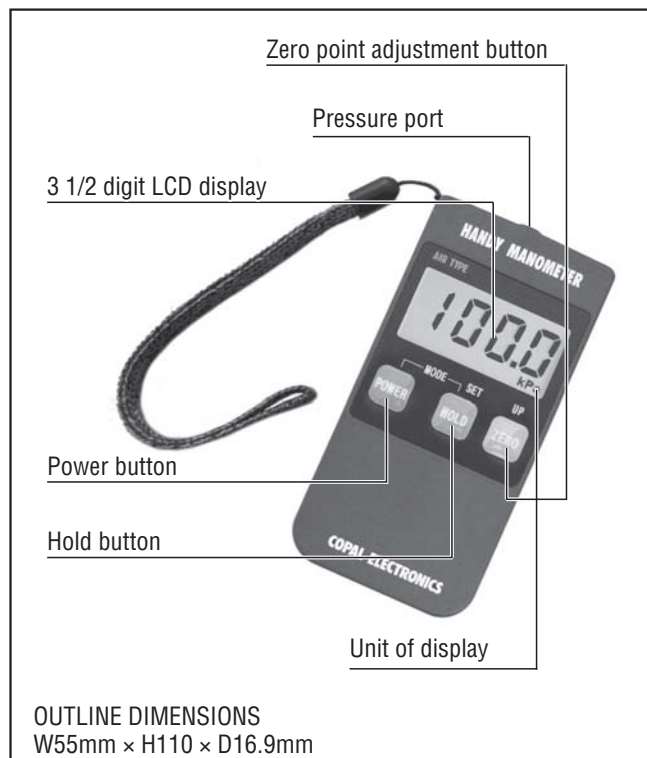
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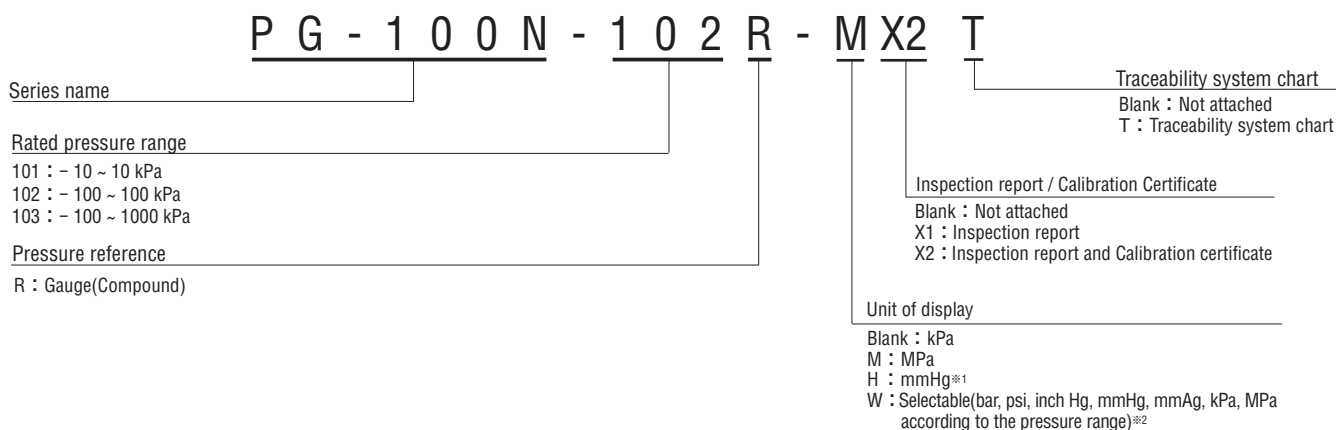
HANDHELD DIGITAL MANOMETER **PG-100N**



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 ± 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 | ± 0.5 %F.S. ± 2 digits (at 25 °C ± 5 °C) | | | |
| | | ± 1.5 %F.S. ± 2 digits (at 25 °C ± 25 °C) | ± 1.0 %F.S. ± 2 digits (at 25 °C ± 25 °C) | | |
| | Resolution | 1 digit | | | |
| Analog output | Power supply (External supply) | 5 \pm 0.5 V DC 5 mA maximum | | | |
| | Output voltage | 0 ~ ± 1.000 V ※Proportionate to display value | | | |
| | Output accuracy / Resolution | ± 10 mV / 1mV | | | |
| | Output resistance | Approx. 10 k Ω | | | |
| | 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 ± 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 | ± 0.5 %F.S. ± 2 digits (at 25 °C ± 5 °C) | |
| | | ± 1.5 %F.S. ± 2 digits (at 25 °C ± 25 °C) | ± 1.0 %F.S. ± 2 digits (at 25 °C ± 25 °C) |
| | Resolution | 1 digit | |
| Analog output | Power supply (External supply) | 5 ± 0.5 V DC 5 mA maximum | |
| | Output voltage | $0 \sim \pm 1.000$ V ※ Proportionate to display value | |
| | Output accuracy / Resolution | ± 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 ² , 3 directions for 3 times each (packed) | |
| Pressure cycling | 0 ~ Rated pressure, 10 ⁶ cycles | |
| Moisture resistance | 40 °C, 90 ~ 95 %RH, 240 hrs. | |

OUTLINE DIMENSIONS

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

