

# High-performance Digital Display Pressure Sensor DP-100 Series

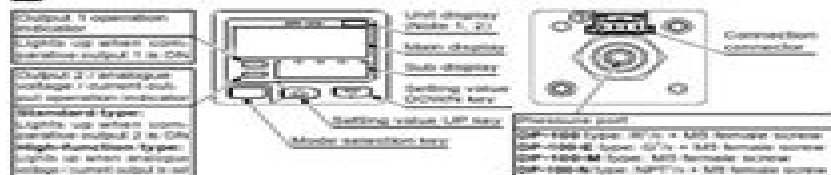
MJE-DP100 No.0040-0007

Thank you very much for purchasing Panasonic products. Read this Instruction Manual carefully and thoroughly for the correct and optimum use of this product. Kindly keep this manual in a convenient place for quick reference.

## WARNING

- Never use this product as a sensing device for personnel protection.
- In case of using sensing devices for personnel protection, use products which meet laws and standards, such as OSHA, ANSI or IEC etc., for personnel protection applicable in each region or country.
- This product is designed for use with non-corrosive gas. It cannot be used for liquid or corrosive gas.
- A product intended for use in Japan conforms to the Japanese Measurement Act. Do not use a product intended for use overseas in Japan.

## 1 PART DESCRIPTION



Note: 1) In the case of a model that is intended for use outside Japan, select the unit display mode correspondingly to the set pressure unit.  
2) The product for use outside Japan can be set only to "MPa" or "kPa".

## 2 PIPING

- When connecting a commercial coupler to the pressure port, attach a 12mm spanner (14mm for DP-100-E type) to the pressure port's hexagonal section to fix the port, and then tighten with a tightening torque of 0.5N·m or less (M3 female: 1.5m or less). The commercial coupler or pressure port section will be damaged if the tightening torque is excessive. Wrap sealing tape around the coupler when connecting to prevent leaks.



## 3 MOUNTING

- The sensor mounting bracket **MS-DP1-1** is available as an option. When mounting the sensor onto the sensor mounting bracket, etc., the tightening torque should be 0.5N·m or less.



- The panel mounting bracket **MS-DP1-2** (optional) and **MS-DP1-4** (optional), as well as the front cover **MS-DP1-3** (optional) and **DPX-04** (optional) are also available.
- The type of the front cover is different depending on the applied mounting bracket. Use **MS-DP1-3** for **MS-DP1-2**, and **DPX-04** for **MS-DP1-4**.
- For mounting of the panel mounting bracket, refer to the instruction Manual enclosed with **MS-DP1-2** or **MS-DP1-4**.

## 4 WIRING

### Connection method

- Insert the cable with connector **CN-14A-C** into this product's connection connector section as shown in the right figure.



### Disconnection method

- Pressing the release lever of the cable with connector, pull out the connector.

\*Recommended pressure contact: DPX-04GN1 (P3.0 mounting: PNP-04V3, LPT Mtg. Co., Ltd.)

Note: Do not pull by holding the cable without pressing the release lever, as this can cause cable break or connector break.

### Connection connector pin arrangements



Connectors and pins	Sensor signals
1	V <sub>CC</sub>
2	Comparative output 1
3	Standard type: Comparative output 2 High-function type: Analogue voltage / current output or external input
4	GND

## 5 I/O CIRCUIT DIAGRAMS

### NPN output type

#### Standard type



#### High-function type



### PNP output type

#### Standard type



#### High-function type



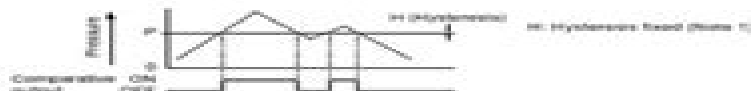
Note: 1) When the analogue current is output, the output load resistance should be 200Ω max.  
2) When using the voltage output, the output load resistance should be 10kΩ or more.  
3) When using the voltage output, the output load resistance should be 10kΩ or more.  
Furthermore, note that if the cable is connected, the cable resistance will cause the voltage to drop.

## 6 OUTPUT MODE AND OUTPUT OPERATION

- The EASY mode, hysteresis mode or window comparator mode can be selected as the output mode for comparative output 1 and comparative output 2. Refer to "Comparative output 1 / 2 output mode settings" in "2 MENU SETTING MODE" for details.

### EASY mode

- ON / OFF of the comparative output is controlled in this mode.



Note: 1) Hysteresis can be fixed in 8 steps.  
2) Hysteresis fixed value selection in "2 MENU SETTING" for setting.  
3) "1" or "2" is displayed for comparative output 1 and "1" or "2" for comparative output 2 on the sub display.

### Hysteresis mode

- The comparative output ON / OFF state can be controlled with randomly set hysteresis in this mode.



Note: 1) "1" or "2" is displayed for comparative output 1 and "1" or "2" for comparative output 2 on the sub display.

# Panasonic Instruction Manual

**Rachel S Tattersall**



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