

High-performance Digital Display Pressure Sensor DP-100 Series

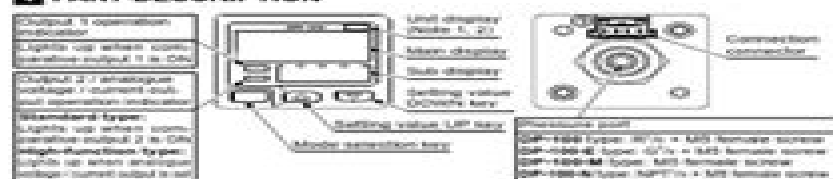
MUE-DP100 No.0040-0009

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: To fit the case of a model that is intended for use outside Japan, select the unit display mode correspondingly to the set pressure unit.
① 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 product
Contact: JPN-C0001 (P3.0) mounting: JPN-C0001 (P3.0) (JST MG-C6, 5 to 2)

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

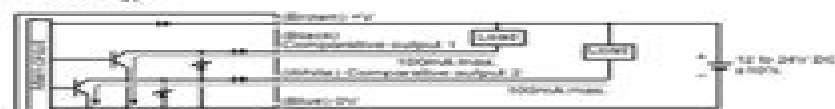


Connectors and No.	Signal name
1	V _{CC}
2	Comparative output 1
3	Standard type: Comparative output 2 High-function type: Analogue voltage / current output or external input
4	GND

5 I/O CIRCUIT DIAGRAMS

NPN output type

Standard type



High-function type



PNP output type

Standard type



High-function type



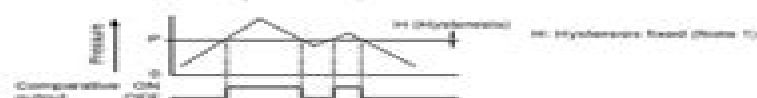
Note: ① When the analogue current is output, the output load resistance should be 200Ω or more.
② When using for other the voltage output, the output load resistance should be 200Ω or more.
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④ When using for other the voltage output, the output load resistance should be 200Ω or more.

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 is determined by the output selection in "2 MENU SETTING" for setting.
③ "ON" / "OFF" is displayed for comparative output 1 and "ON" / "OFF" 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 "ON" / "OFF" is displayed for comparative output 1 and "ON" / "OFF" or "ON" / "OFF" for comparative output 2 on the sub display.

Panasonic Instruction Manual

Rachel Sandford



Panasonic Instruction Manual:

Panasonic Operating Instruction Manual , The Private Music Instruction Manual Rebecca Osborn,2004

Future and current independent private music educators will find this book an invaluable resources for establishing and maintaining a private music studio Private music instructors will learn what they should expect professionally personally and financially from their independent music instruction business Until now no single resource has existed that fully explains how to run this type of business successfully This book presents all aspects of private music instruction through an easy to read concise and engaging instructional format Following the sound advice presented will help to greatly alleviate the problems that all beginning independent instructors face by specifically mapping out chronological steps for establishing and maintaining a private instruction music business The field of private music education has been inundated by less than professional individuals who have made it difficult for legitimate qualified instructors The Private Music Instruction Manual shares years of information and experiences in the hope of legitimizing the field of private music instruction In a world where there is decreasing priority and structure in public music education private music instructors become increasingly important to prepare the next generation of musicians No matter the size of your private music instruction business the advice presented in The Private Music Instruction Manual will help to improve any private music business From the Midwest Book Review With The Private Music Instruction Manual A Guide For The Independent Music Educator author Rebecca Osborn draws upon her many years of experience and expertise as an adjunct college music professor and owner of three private music studies to write an informed and informative guidebook specifically for musicians and music instructors who want to teach students in a profitable private practice but are not familiar with or knowledgeable about setting up a music instruction business enterprise Rebecca Osborne provides a wealth of invaluable professional effectively organized and presented instructions on establishing and maintaining a music teaching business and shows what to expect professionally personally and financially from independent music instruction If you want to make money teaching other how to play any kind of music instrument then you need to give a careful and profitable reading to Rebecca Osborn s The Private Music Instruction Manual

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in parameter estimation challenges including rank deficiency inverter nonlinearity and magnetic saturation This book is supported by theories experiments and simulation examples for each technique covered Topics explored in this book include Electrical and mechanical parameter estimation techniques including those based on current voltage injection and position offset injection under constant or variable speed and load for sensored or sensorless controlled PMSMs accounting for magnetic saturation cross coupling inverter nonlinearity temperature effects and more Recursive least squares the Kalman filter model reference adaptive systems Adaline neural networks gradient based methods particle swarm optimization and genetic algorithms Applications of parameter estimation techniques for improvement of control performance sensorless control thermal condition monitoring and fault diagnosis This book is an essential reference for professionals working on the control and design of electrical machines researchers studying electric vehicles wind power generators aerospace industrial drives automation systems robots and domestic appliances as well as advanced undergraduate and graduate students in related programs of study

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Photographer's Guide to the Leica D-Lux 4 Alexander S. White,2014-10-24 This book is a comprehensive illustrated guide to the operation features menus and controls of the Leica D Lux 4 compact camera It provides clearly written guidance for how to achieve excellent results using the camera s numerous sophisticated options It also discusses topics such as infrared photography macro photography and street photography and provides information about accessories for the D Lux 4

Technical Instruction Book: Link control unit for the Runway End Identifier Lighting (REIL) system with Remote Monitoring Subsystem (RMS) ,1990 *Manuals Combined: U.S. Marine Corps Basic Reconnaissance Course (BRC) References* , Over 5 300 total pages MARINE RECON Reconnaissance units are the commander s eyes and ears on the battlefield They are task organized as a highly trained six man team capable of conducting specific missions behind enemy lines Employed as part of the Marine Air Ground Task Force reconnaissance teams provide timely information to the supported commander to shape and influence the battlefield The varying types of missions a Reconnaissance team conduct depends on how deep in the battle space they are operating Division Reconnaissance units support the close and distant battlespace while Force Reconnaissance units conduct deep reconnaissance in support of a landing force Common missions include but are not limited to Plan coordinate and conduct amphibious ground reconnaissance and surveillance to observe identify and report enemy activity and collect other information of military significance Conduct specialized surveying to include underwater reconnaissance and or demolitions beach permeability and topography routes bridges structures urban rural areas helicopter landing zones LZ parachute drop zones DZ aircraft forward operating sites and mechanized reconnaissance missions When properly task organized with other forces equipment or personnel assist in specialized engineer radio and other special reconnaissance missions Infiltrate

mission areas by necessary means to include surface subsurface and airborne operations Conduct Initial Terminal Guidance ITG for helicopters landing craft parachutists air delivery and re supply Designate and engage selected targets with organic weapons and force fires to support battlespace shaping This includes designation and terminal guidance of precision guided munitions Conduct post strike reconnaissance to determine and report battle damage assessment on a specified target or area Conduct limited scale raids and ambushes Just a SAMPLE of the included publications BASIC RECONNAISSANCE COURSE PREPARATION GUIDE RECONNAISSANCE RECON TRAINING AND READINESS T R MANUAL RECONNAISSANCE REPORTS GUIDE GROUND RECONNAISSANCE OPERATIONS GROUND COMBAT OPERATIONS Supporting Arms Observer Spotter and Controller DEEP AIR SUPPORT SCOUTING AND PATROLLING Civil Affairs Tactics Techniques and Procedures MAGTF Intelligence Production and Analysis Counterintelligence Close Air Support Military Operations on Urbanized Terrain MOUT Convoy Operations Handbook TRAINING SUPPORT PACKAGE FOR CONVOY SURVIVABILITY Convoy Operations Battle Book Tactics Techniques and Procedures for Training Planning and Executing Convoy Operations Urban Attacks **Automated Surface Observing System, National Weather Service ,1998**

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