Pressure Indicator

To Pressure Indicator

4. PARAMETER LIST

4.1 Monitor Mode

Any parameter which is not used in the PG500 will not be displayed except for parameters in engineering mode.

Symbol Name Data range Description
--- --- ---
IMR02F02-E4 - Measured value

Thank you for purchasing this RKC product. In order to achieve maximum performance and ensure proper operation of your monitor, carefully read all the instructions in this manual. Please maintain the manual in a convenient location for easy reference.

For the installation, the part description, the specifications and the communication function (Options), please refer to the following separate manuals.

\* PG500 Installation Manual (IMR02F01-E4). Enclosed with PG500.

\* PG500 Communication Quick Instruction Manual (IMR02F03-E2). Enclosed with PG500.

\* PG500 Communication Manual (IMR02F04-E1). Separate volumes. Only PG500 provided with the communication function.

The manuals can be downloaded from the offical RKC website: http://www.rkc.com/english/manual, free from.

1. HANDLING PROCEDURES

1.1 Mounting and wiring

Ensure to refer to PG500 Installation Manual (IMR02F01-E4).

1.2 Power On

- Power ON
- Setting of usage condition

Set the parameters for sensor's usage condition in setup mode. Refer to 4.2 Setup Setting Mode.

1.3 Setting of alarm

- Set the alarm set value. Refer to 4.3 Parameter Setting Mode.

2. CHANGING DATA SETTINGS

2.1 Parameter setting mode

- To store a new value for the parameter, always press the SET key.
- After a new value is displayed on the display by using UP/DOWN keys, if this key operation is performed within 1 minute without pressing SET key, this parameter returns to the Measured value (PV) screen and the set value will not be changed.

Example: Changing the alarm 1 set value (AL1) to 20 MPa

1. Select the Alarm 1 set value (AL1) of parameter setting mode

Measured value Parameter setting mode Parameter setting mode

Press the 3 key several times.

2. Change the Alarm 1 set value (AL1) to 20 MPa

Pressing the A/DON key displays the data display. The high-lighted digit indicates which digit can be set.

1. AL1 20

2. Store

The display goes to the next parameter.

Other data can also be set by the same procedures as described in steps 1 to 3.

3. TRANSFER TO EACH MODE AND PARAMETER

This instrument returns to Measured value (PV) screen, if key operation within 1 minute is not performed.

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Pressure display high

Pressure display low

Display unit

Device address

Gain setting

Input unit name

Alarm 1 set value

Alarm 2 set value

Alarm set value

Gain setting decimal point position

Linearizing type

3.4 Engineering mode

It is possible to store the factory set value for a parameter by using the following procedures.

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Example: Setting of usage condition (When using our CZ-100P or CZ-200P)

Set the values and the unit engraved on the rated nameplate attached to the pressure sensor. To Pressure display high (SCH): 20 MPa. To Pressure display low (SCL): 0.00 MPa and Display unit (UNIT) respectively. Set the rated output (mV) and the linearizing type symbol to Gain setting (GAIN) and Linearizing setting (LINS).

4.2 Setup Setting Mode

The following parameters according the pressure sensor to be used.

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G AIN Gain setting

Example: Setting of usage condition (When using our CZ-100P or CZ-200P)

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### Auto zero

- Auto zero is used to automatically set the PV bias so that the Measured value (PV) will be 0.
- Make sure that the pressure sensor is installed on the equipment.
- The pressure sensor is calibrated using the equipment.
- Set the pressure sensor to the zero-state.
- Press the UP key for the Manual zero input span adjustment built-in pressure sensor.
- The auto zero screen automatically starts auto zero operation. If the auto zero operation normally ends, then the PV screen is displayed.
- The result of auto zero adjustment is also reflected in the PV screen.
- The auto zero can be executed by digital input (DI1, terminal Nos. 13 and 14).

#### 4.3 Parameter Setting Mode

**Parameter Setting Mode**

- Press the SELECT key while holding the MONI key.
- The parameter setting display is displayed in the next screen.

#### 4.4 Engineering Mode

**Parameters in the Engineering mode (F10 to F91) should be set correctly.**

- The parameters are set for the same application after setting any parameter related to operation. Once the parameters in the Engineering mode are set correctly, no further changes need to be made for the parameters for the same application under normal conditions. If they are changed after setting, it may result in malfunction or damage of the instrument. RKC will not bear any responsibility for malfunction or damage as a result of improper changes in the Engineering mode.

**All parameters of the Engineering mode are displayed regardless of the instrument specification.**

### 5. ERROR DISPLAYS

#### Display when input error occurs

- Prior to replacing the sensor, always turn OFF the power.
- When the sensor is replaced, change the appropriate parameters.

**Flash**

- Flashing display of the Measured value (PV) and minus display of the PV.

**Description**

- For Input span (F10) or 2 seconds.

**Action**

- Use to select the alarm action.

**On**

- The alarm is energized.

**OFF**

- The alarm is de-energized.

**Check input type in alarm action**

- Check input type set in alarm action.

**Display when input error occurs**

- PV exceeds the Pressure display range.

### 6. Self-diagnostic function

In an error is detected by the self-diagnostic function, the "E-1" error code are displayed alternately on the PV display. If the errors occur simultaneously, the total summation of these error codes is displayed.

**Display when input error occurs**

- PV exceeds the Pressure display range.

**Display when input error occurs**

- PV exceeds the Pressure display range.