



# Configuration

Please follow the configuration sequence below to ensure reliable operation.

This indicator has two menus:

- **Set Control:** Specifies the relay and alarm values.
- **Factory Settings:** Defines functions and calibration procedure.

## Set Control

**1** Original display state. Enter the OUT relay value, then press set key.

**2** Enter the Alarm-1 value, then press set key.

**3** Enter the Alarm-3 value, then press set key.

**4** Enter the Alarm-4 value, then press set key.

**Note:** All pressure-related values in this indicator are based on MPa (Megapascal) unless the device was purchased with the Bar unit. The default temperature unit is degrees Celsius.

## Factory Settings

**5** Press CAE/AC key to set the zero point and go to next menu.

**6** Use right and up keys to set pressure range value, press the set key.

**7** In this step, CAE LED (80% shunt cal) turns on. If PV=SV, press CAE to calibrate & proceed. If PV=0 or PV-SV gap is large, see troubleshooting.

**8** Do not adjust! Press SET key to go to next menu.

**9** Select the AL-1 mode, then press SET key.

**10** Enter the Hysteresis value of AL-1, then press SET key.

**11** Select "1" as AL-2 mode, then press SET key.

**12** Enter the lower range value over which retransmission signal is scaled.

**13** Enter the upper range value over which retransmission signal is scaled.

**14** Do not adjust! Press SET key to go to next menu.

**15** Do not adjust! Press SET key to go to next menu.

**16** Select the AL-4 mode, then press SET key.

**17** Enter the Hysteresis value of AL-4, then press SET key.

**18** Enter the desired reaction speed, then press SET key.

**19** Switch between digits to specify the decimal point, then press SET key.

**20** Do not adjust! Press SET key to go to next menu.

**21** Select the type of thermocouple, then press SET key.

**22** Set the temperature deviation value, then press SET key.

**23** Select the required temperature unit for indication, then press SET key.

**24** Select the required locking level, then press SET key.

## Functions Explanation

ID	Symbol	Value	Function Explanation
1	OUT	0 ~ 9999	The value at which the OUT relay is activated.
2	AL-1	0 ~ 9999	The value at which the Alarm-1 relay is activated.
3	AL-3	0 ~ 9999	The value at which the Alarm-3 relay is activated.
4	AL-4	0 ~ 9999	The value at which the Alarm-4 relay is activated.

ID	Symbol	Value	Function Explanation
5	AC <sup>4)</sup>	0	Setting the "zero point" of the full scale.
6	Ed	070.0	Setting the "span point" of the sensor's pressure range.
7	CAE <sup>5)</sup>	80% FS	Enabling 80% shunt calibration, used for signal demarcation.
8	ESCL	0	Referring to the calibration of zero & full span. (Do not adjust)
9	AL-1	PLJ	Pressure - Normally Close
		PHJ	Pressure - Normally Open
		P-I	Pressure - Analog Output (Not available)
		*CLJ	Temperature - Normally Close
		*CHJ	Temperature - Normally Open
19	*C-I	Temperature - Analog Output (Not available)	
10	HC	0-100	Setting "Hysteresis" value of Alarm-1.

11	AL-2	PLJ	Pressure - Normally Close (Not activated for Zk-...-H3/4/5)
		PHJ	Pressure - Normally Open (Not activated for Zk-...-H3/4/5)
		P-I	Pressure - Analog Output
		*CLJ	Temperature - Normally Close (Not activated for Zk-...-H3/4/5)
12	AL-3	*CHJ	Temperature - Normally Open (Not activated for Zk-...-H3/4/5)
		*C-I	Temperature - Analog Output (Not available)
		dL	The lower range limit over which the analog signal is scaled.
		dH	The upper range limit over which the analog signal is scaled.
14	AL-3	PLJ, PHJ	(Do not adjust)
15	HC	0-100	(Do not adjust)
16	AL-4	PLJ	Pressure - Normally Close
		PHJ	Pressure - Normally Open
		*CLJ	Temperature - Normally Close
		*CHJ	Temperature - Normally Open
17	HC	0-100	Setting "Hysteresis" value of Alarm-4.
18	gl	23	Reaction speed - The larger the number, the slower the reaction.
19	dot	000.0	Decimal point position
20	CODE	----	Not Adjustable!

21	SYS	J	Setting of temperature sensor input type; J, E, N, T, K
22	SC	0	Setting of temperature deviation value.
23	CF	°C	Setting of temperature display unit; °C, °F
24	LOCK	0	No lock!
		1	"Factory settings" menu is locked.
		2	"Set Control" menu is locked.

4) To calibrate the zero point, allow the sensor to reach the process temperature, ensure no pressure is applied, and then perform the calibration.

5) The CAE function generates an electrical output that mimics the response to an applied pressure. It is used to verify that the instrument correctly accepts the signal range.

### Cautions:

- Do not adjust the Span Potentiometer with 80% calibration activated. The signal generated by CAE function is a fixed voltage added to the Zero Output. It is not influenced by Span potentiometer adjustments!

### Troubleshooting Common Issues:

- "L L L L" appears on the PV display: check if the sensor wires are connected properly.
- "OPEN" appears on the SV display: check if the thermocouple wires are connected properly.
- "CAE" function activated, but PV displays 0: Check if calibration wires are properly connected, or PV displays an incorrect high value (not 80% of the pressure range): The calibration wires may be misconnected, or the pressure range set in "ED" is incorrect.
- Unable to access the "SET Control" menu: Check the "LOCK" parameter in "Factory Settings" to see if the menu is locked. If the value is 2, access is restricted.
- When holding down "SET" Key, Only "Lock" appears instead of "Factory Settings" parameters: The menu may be locked. Verify the "Lock" parameter in "Factory Settings"-if set to 1, access is restricted.

### Cautions:

- Unauthorized users must not access configuration settings—use "Lock" parameter.
- Calibration procedures should be performed only by trained personnel.
- Always refer to the technical support before attempting repairs.

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