

Model PD-272

Process Controllers

Description

Model PD-272 controllers are high precision (up to 0.2%FS, reading) instruments. These controllers feature in low profile, light weight, low energy consumption and flexibility in functions for process control. Capable of working with different types of transducers and transmitters, these controllers are widely used in industrial process control systems.

Model PD-272 controllers feature dual outputs with front panel configurations of dual 4-digits LED displays and four indicators (OUT, AL-1, AL-2 and CAL). Up to three alarm points can be set: upper limit (main alarm, indicated by "OUT"), first alarm setting point (indicated by "AL-1"), second alarm setting point (indicated by "AL-2").

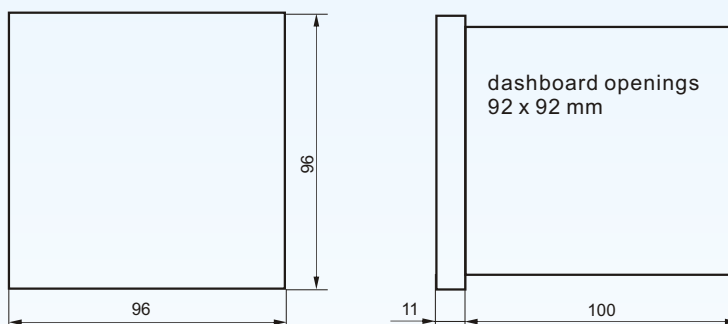
PD-272 controllers accept various input signals from mV signal to process voltage signals (e.g. 0~10 Vdc) or current loop (e.g. 4~20 mA). By choosing suitable supplementary output modules, PD-272 can have up to four relay output units to control the external actuators, or have output of voltage signal or current loop. RS-485 interface for data transmission is available as an option.



Features:

- accuracy up to 0.2%FS \pm 1 digit
- dual outputs configuration with dual 4-digit LED displays, display resolution ~0001
- 4 individual indicators: OUT (main alarm), AL-1 (alarm 1), AL-2 (alarm 2), CAL (calibration)
- accept various input signals: mV, voltage or current process signals
- various output signals: current loop, voltage, or relay output (max. 4 units)
- 80%FS shunt calibration display
- option: data communication via RS-485 protocol

Dimensions:



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Specifications

display range display unit display resolution sampling rate	0000 ~ 9999 (selectable decimal point)* psi, bar, kg, °C, others** 0001 20 /s
input signal output accuracy	2 mV/V or 3.3 mV/V 4~20 mA, 0~5 V, 0~10 V signal from temperature sensor*** alarm 1 (AL-1): 0~10 mA, or 4~20 mA 0~5 Vdc, or 0~10 Vdc relay output alarm 2 (AL-2, option): 0~10 mA, or 4~20 mA 0~5 Vdc, or 0~10 Vdc relay output AL-3 module (option): relay output RS-485 interface AL-4 module (option): relay output 0.2 %fs ± 1 digit
excitation voltage for transducer power supply	9 Vdc 85~265 Vac, 50~60 Hz
working temperature working humidity	0 ~ 55 °C ≥ 80 %RH
dimensions weight	96 x 96 x 100 mm 400 g

The specifications listed above are subject to change with prior notice.

*: temperature range is 000.0 ~ 400.0

** : for other display unit, please specify in the order.

***: refer to the ordering code on the next page.

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Ordering code:

example: PD272-1B-2D-UE-TJ-1CA-2NA-3DR-4NA-BB-C*

code	display unit
P	psi
B	bar
K	kg
D	°C
Z	others

code	display unit 2*
2D	°C
NA	none

code	input signal
UC	2.0 mV/V
UE	3.3 mV/V
CA	4~20 mA
VL	0 ~ 5 Vdc
VK	0 ~ 10 Vdc

code	temperature sensor**
TJ	J-thermocouple
TK	K-thermocouple
TE	E-thermocouple
Pt1	Pt100 thermal resistor
Pt2	Pt1000 thermal resistor
NA	none

code	alarm 1 (AL-1)
1CA	4 ~ 20 mA
1CB	0 ~ 10 mA
1VL	0 ~ 5 Vdc
1VK	0 ~ 10 Vdc
1SR	relay output

code	special requests information
C*	<p>This code "C*" only applies when customer has special requests which are not included in the standard ordering code.</p> <p>With this code, customer can define specifications or requests in separate lines with "C*" added to the end of the ordering code.</p> <p>These requests must be confirmed by a BCM sales personnel before the official order is placed.</p>

code	accuracy
BB	0.2 %fso

code	alarm 4 (AL-4)
4SR	relay output
4NA	not applicable

code	alarm 3 (AL-3)
3SR	relay output
3DR	RS-485 interface
3NA	not applicable

code	alarm 2 (AL-2)
2CA	4 ~ 20 mA
2CB	0 ~ 10 mA
2VL	0 ~ 5 Vdc
2VK	0 ~ 10 Vdc
2SR	relay output
2NA	not applicable

Ordering Code Example: PD272-1B-2D-UE-TJ-1CA-2NA-3DR-4NA-BB

Explanations of the Ordering Code

Model PD-272 process controller works together with a pressure and temperature transducers. The input signal from the transducer is 3.33 mV/V, while the temperature sensor used is J-thermocouple. The display unit for the first input (pressure) is bar, and the display unit for the second input (temperature) is °C. The output signal of PD-272 is 4~20 mA. This controller is equipped with RS-485 communication module. And the display accuracy is 0.2%fso. The customer has no special requests.



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