

Model PCM13

Multifunction-Panelmeter

OVERVIEW

The PCM13 multifunction-panelmeter receives analog and pulse outputs from flowmeters, pressure gauges, photoelectric switches, etc., and displays process and totalized values using LEDs. This highly-efficient panelmeter features a variety of output functions and a power distributor function in addition to a counter function.



FEATURES

- 4 to 20 mA DC or 1 to 5 V DC for analog input.
Open collector, non-voltage contact pulse, or voltage pulse for pulse input.
- Has built-in 250 Ω resistance for SFC communications, so a communications power supply can be provided by using the distributor function. (Only applicable when selected in additional specifications.)
- A distributor function is built-in as a sensor power supply. 12 V DC or 24 V DC output is available.
- Analog output, pulse output, or contact output.
- Process value display or totalized value display can be selected, depending on use.
- LED color: green or red, selected depending on the operating environment.
- Easy-to-read large LED display.
- Built-in memory to store totalized value in case of power failure.
- Reset function, preset function and pause function.

SPECIFICATIONS**Input**

4 to 20 mA DC, 1 to 5 V DC
 Open collector, Non-voltage contact pulse
 (contact capacity: 12 V DC, 10 mA),
 Voltage pulse (4.5 to 30 V on H level, 0 to 2.0 V on L level)
 Pulse frequency
 100 Hz or 1000 Hz max.
 Pulse width
 5 ms or more at 100 Hz
 0.3 ms or more at 1000 Hz
 Duty ratio
 50% or less

Output

4 to 20 mA DC, Open collector pulse
 (10, 500, 1000 Hz, output capacity: 30 V DC, 200 mA max.)
 Contacts (process value: 2 contacts, totalized value: 2
 contacts, contact capacity: 250 V AC, 0.3 A)

Distributor function

12 V DC $\pm 5\%$ / 150 mA max.
 24 V DC $\pm 5\%$ / 50 mA max.

Reset function

Resets totalized count and totalized initial value
 (using front mask internal switch or external reset signal).

Power supply

90 to 264 V AC, 50/60 Hz, 24 V DC $\pm 10\%$

Display

Green or red LEDs, Character height 15 mm
 Process value (5-digit) or totalized value (6-digit)

Cut-off function

0 to 10%

Ambient temperature range

0 to 50 °C

Ambient humidity range

10 to 85% RH (no condensation)

Storage temperature range

-20 to 70 °C

Case material

ABS resin

Memory

Non-volatile memory, 10-year storage period

Mounting

Panel mounted with dedicated mounting bracket

Mass

Approx. 500 g

Power consumption

Approx. 16 VA

Attachments

Engineering unit seals (Pa, kPa, MPa, N/m², bar, m³/s, m³/min,
 m³/h, Nm³/s, Nm³/min, Nm³/h, l/s, l/min, l/h, kl/min, NI/min, NI/h,
 W/h, kW/h, cal/h, kcal/h, Mcal/h, Gcal/h, T/h, t/h, g/h, m/s, A,
 m³, Nm³, l, kl, NI, Nkl, W, kW, W-s, W-h, kW-h, cal, kcal, Mcal,
 Gcal, T, t, kg, g, m, km, Ah, kA•h)

Setting at shipment

Default value set at factory

MODEL SELECTION

Multifunction Panelmeter

PCM13 -(1)(2)(3)(4) -(5) -Options

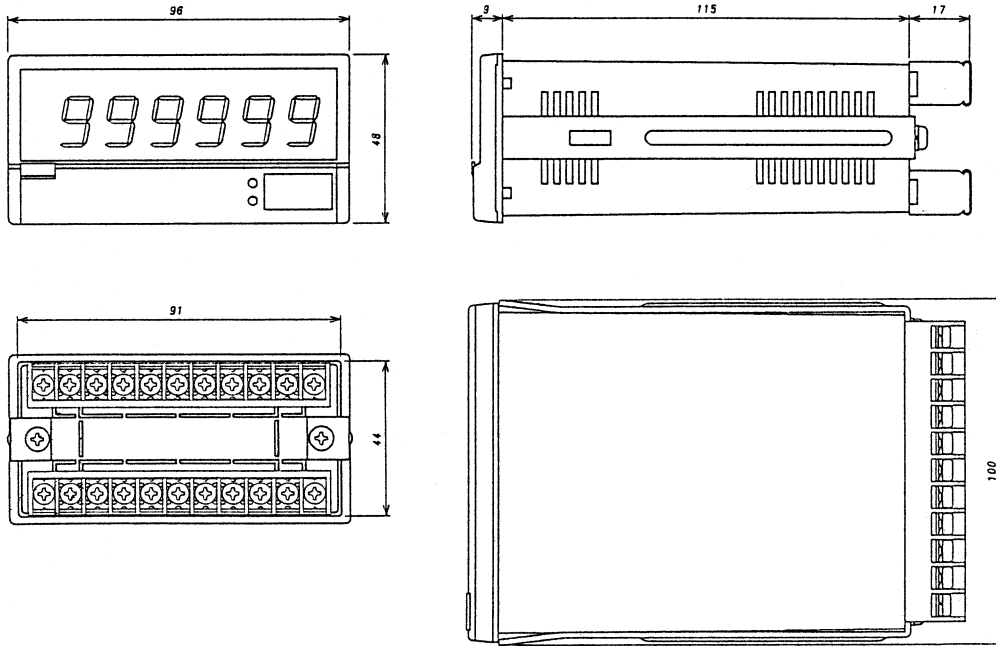
Model No. Example : PCM13 -A3BR -2 -A

Basic model No.	PCM13 -
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(1)	Power supply	90V to 264V AC.	A
		24V±10% DC.	B
(2)	Input	Analog 4 to 20mA DC	1
		Analog 1 to 5V DC	2
		Pulse	3
		Analog 0 to 5V DC	4
(3)	Output	With pulse / without 4 to 20mA DC.	A
		With pulse / With 4 to 20mA DC.	B
		With Pulse / with Integrated 4 to 20mA DC. signal	C
(4)	Display color	Green LED	G
		Red LED	R
			-
(5)	Distributor function	None	X
		DC12V / 150mA	1
		DC24V / 50mA	2
			-
Options	Options	No option	X
	Contact output	With contact output	A
	Test report	With test report	B
	Certification of traceability	With certification of traceability	C

DIMENSIONS

(Unit:mm)



Panel cutting dimensions $92^{+0.8}_0 \times 45^{+0.6}_0$

Terminal Layout

Upper terminal

(Without contact output)

Terminal	NC	NC	NC	NC	NC	P.O	RESET	PA/LA	D.COM
	1	2	3	4	5	6	7	8	9
Function	NC					Pulse output	Reset	Pulse/Latch	Common

(With contact output)

Terminal	AL1OUT	AL2OUT	AL3OUT	AL4OUT	ALCOM	P.O	RESET	PA/LA	D.COM
	1	2	3	4	5	6	7	8	9
Function	Contact output					Pulse output	Reset	Pulse/Latch	Common

Lower terminal (for pulse input)

(Without sensor power supply or analog output)

Terminal	Hi (1)	Hi (2)	COM	NC	NC	NC	GND	P2 (+)	P1 (-)
	1	2	3	4	5	6	7	8	9
Function	Input		Common	NC			Ground	Power supply	

(With sensor power or analog output)

Terminal	Hi (1)	Hi (2)	COM	NC	NC	NC	GND	P2 (+)	P1 (-)
	1	2	3	4	5	6	7	8	9
Function	Input		Common	Sensor power supply	Analog output		Ground	Power supply	

Lower terminal (for 4 to 20mA dc or 1 to 5 V dc)

(Without sensor power supply or analog output)

Terminal	Hi-	Lo-	COM	NC	NC	NC	GND	P2 (+)	P1 (-)
	1	2	3	4	5	6	7	8	9
Function	Input		Common	NC			Ground	Power supply	

(With sensor power supply or analog output)

Terminal	Hi-	Lo-	COM	NC	NC	NC	GND	P2 (+)	P1 (-)
	1	2	3	4	5	6	7	8	9
Function	Input		Common	NC			Ground	Power supply	

Note

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