Multifunction-Panelmeter

Model PCM13

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 ±5% / 150 mA max.

24 V DC ±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 ±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/ m^2 , bar, m^3 /s, m^3 /min, m^3 /h, Nm^3 /s, Nm^3 /min, Nm^3 /h, l/s, l/min, l/h, kl/min, Nl/min, Nl/min, Nl/h, W/h, kW/h, cal/h, kcal/h, Mcal/h, Gcal/h, T/h, t/h, g/h, m/s, A, m^3 , Nm^3 , l, kl, Nl, Nkl, W, W, W-s, W-h, kW-h, cal, kcal, Mcal, Gcal, T, t, kg, g, m, km, kh, kA•h)

Setting at shipment

Default value set at factory

MODEL SELECTION

Multifunction Panelmeter

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

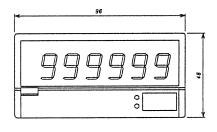
Model No. Example: PCM13 -A3BR -2 -A

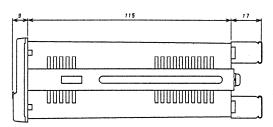
Basic	PCM13 -
model No.	P GIVI 13 -

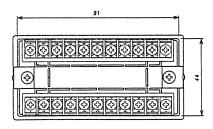
(1)	Power supply	90V to 264V AC.	Α	1						
		24V±10% DC.	В	1						
(2)	Input	Analog 4 to 20mA DC		1						
		Analog 1 to 5V DC		2						
		Pulse		3						
		Analog 0 to 5V DC		4		_				
(3)	Output	With pulse / without 4 to 20mA DC.			Α					
		With pulse / With 4 to 20mA DC.			В					
		With Pulse / with Integrated 4 to 20mA D	C. sig	nal	С					
(4)	Display color	Green LED G								
		Red LED				R				
							-			
(5)	Distributor	None						Χ		
	function	DC12V / 150mA						1		
		DC24V / 50mA						2		
									-	
Options	Options	No option								Χ
	Contact output	With contact output								Α
	Test report	With test report								В
	Integrated resistance	With resistance for communications equipment								С
	Certification of traceability	With certification of traceability								G

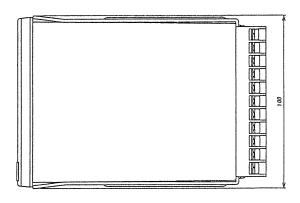
DIMENSIONS

(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
Terrinia	1	2	3	4	5	6	7	8	9
Function	Function NC					Pulse output	Reset	Pulse/Latch	Common

(With contact output)

Torminal	AL1OUT	AL2OUT	AL3OUT	AL4OUT	ALCOM	P.O	RESET	PA/LA	D.COM
Terminal	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)

-	(m control points of among confund									
T,	Terminal	Hi (1)	Hi (2)	СОМ	NC	NC	NC	GND	P2 (+)	P1 (-)	
	Terrinia	1	2	3	4	5	6	7	8	9	
	Function	Input		Common	Sensor power supply	Analog outpu	t	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	nction Input Cor		Common	NC			Ground	Power supply	

<u>Note</u>

Please read the "Terms and Conditions" from the following URL before ordering or use:

http://www.azbil.com/products/bi/order.html

Specifications are subject to change without notice.



Azbil Corporation

Advanced Automation Company

1-12-2 Kawana, Fujisawa Kanagawa 251-8522 Japan URL: http://www.azbil.com/