



Temperature Extension Module

PMM-392 PLUS

The PMM-392 PLUS extends the PMM-300P with up to 6 RTD or 12 thermocouples channels.

KEY FEATURES

- Expands PMM-300P with 6 RTD or 12 thermocouples
- Powered directly through PMM-300P
- Real-time data visualization and configuration
- Up to 6 modules for one PMM-300 PLUS
- Supports 7 RTD and 8 thermocouple types

MONITORING SOLUTIONS



Temperature



DESCRIPTION

The PMM-392 PLUS is a temperature acquisition module supporting up to 6 RTD inputs, or 12 thermocouple (TC) inputs. Up to 32 temperature probes can be connected to a PMM-300 PLUS master system using multiple PMM-392 PLUS extension modules. Each channel can be individually configured in software for:

- RTD types : Pt10, Pt50, Pt100, Pt200, Pt500, Pt1000, Ni120
- Thermocouple types : J, K, E, N, R, S, T, B

When configured in thermocouple mode, each channel can use either the internal cold junction compensation (CJC) or an external CJC source. Each channel includes an LED status indicator for local diagnostics. The temperature inputs are divided into two galvanically isolated groups:

- connectors X1 to X3
- connectors X4 to X6

Each group is galvanically isolated from the rest of the system. Within the same group, input channels are electrically separated from one another but do not provide individual galvanic isolation.

MODULE OVERVIEW

GENERAL

Mounting	35mm DIN rail (acc. to EN 60715) mount
Size	Approx. h:140mm L:117mm l:25mm
Weight	Approx. 200g
Connection to other modules	Sidebus connector for direct connection to other modules PMM-392 PLUS is not compatible with the PMM-305 (PLUS). Connecting them together may lead to irreversible damages.

COMMUNICATION INTERFACES

Interconnection bus	Available to connect multiple PMM-392P to one or more PMM-300P and share Power Supply and statuses
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LED INDICATOR

Power (PWR)	Diagnostic of power supply
COM	Internal communication activity
CH1 to CH6	Temperature channels status (off when disabled, green when OK, blinking when hardware fault)

MODULE ID SELECTION

Module ID selection switch	Rotary switch allowing to setup the module ID between 1 and 6, other IDs are reserved. Modules of different type may share the same ID, they are internally differentiated.
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CONNECTORS

X1 to X6

4-pin terminal strip header, push-in spring connection, clamping range 0.2mm² to 2.5mm²

PINOUT DESCRIPTION

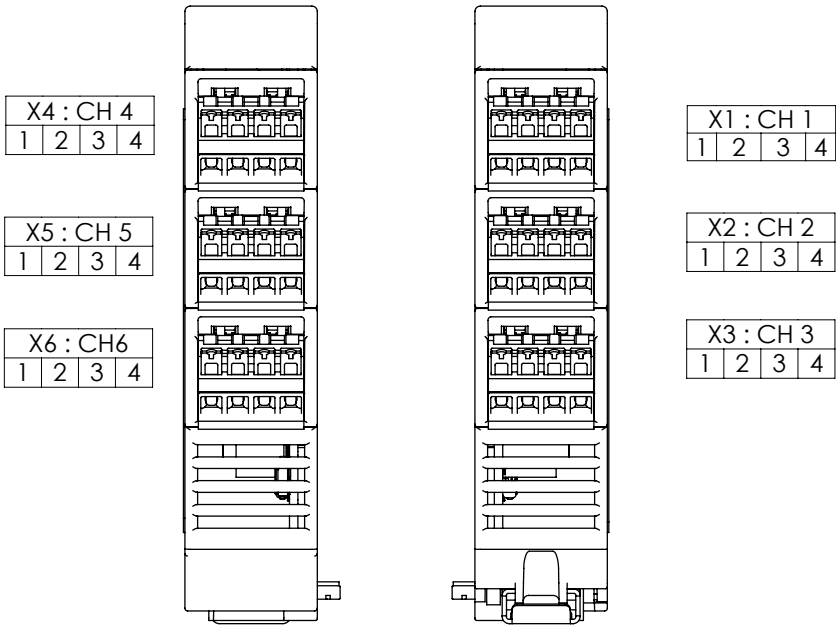


Figure 1: PMM-392P pinout

Name	Description
CH1 to CH6	RTD / thermocouple inputs / cold junction compensation (CJC)
1,2,3,4	I/O signal dedicated to RTD or TC temperature measurement

MECHANICAL DRAWING

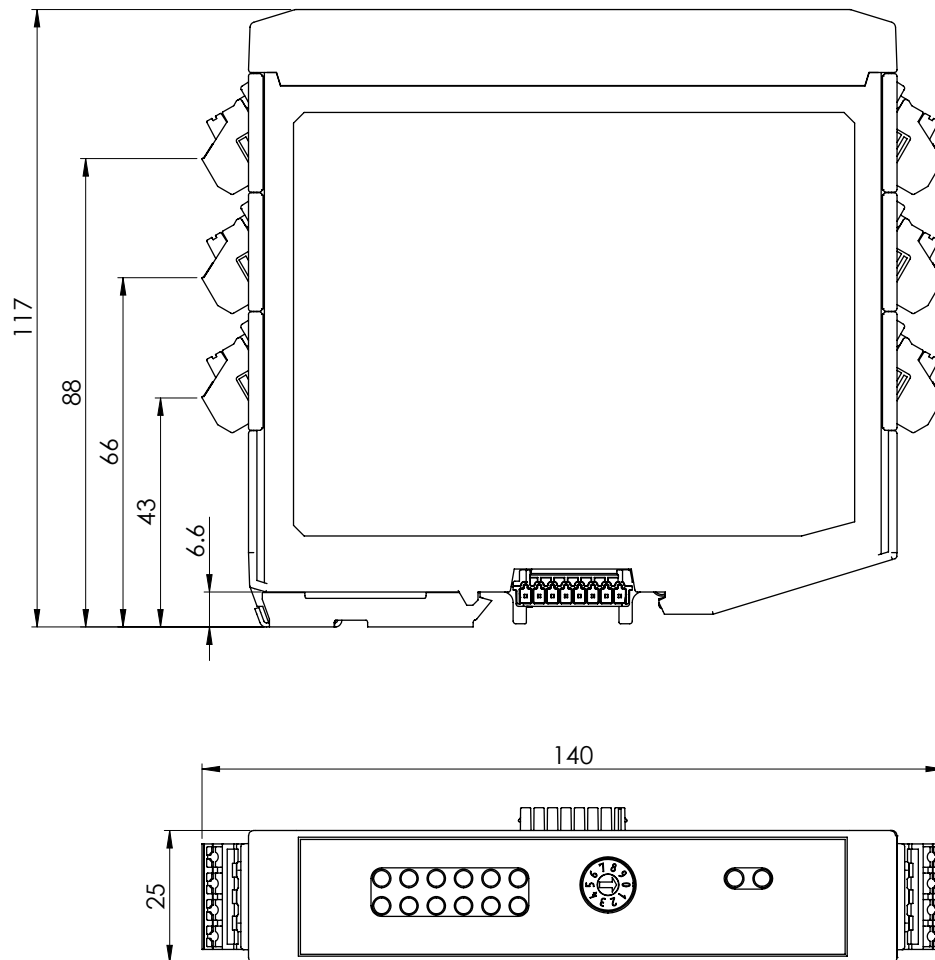


Figure 2: Mechanical dimension of the PMM-392P module

SPECIFICATIONS

POWER SUPPLY

Parameter	Min.	Typ.	Max.	Unit	Conditions
Internal Power supply		24.0		V	
Power consumption			2	W	
Current consumption			83	mA	

TEMPERATURE CHANNELS

Parameter	Min.	Typ.	Max.	Unit	Conditions
Temperature reading accuracy					
• TC	-0.3		+0.3	%	T<0°C
• TC	-0.15		+0.15	%	T>0°C
• Platinum RTD (2, 3 and 4-wires)	-0.1		+0.1	°C	
Internal CJC mismatch		5		°C	If internal CJC is activated
Read cycle period					
		1		s	1 to 6 channels enabled
		2		s	7 channels or more enabled

ENVIRONMENTAL AND APPROVALS

Item	Specification
Ambient operating temperature	0 to 55°C
Ambient storage temperature	-20 to 75°C
Ambient operating humidity	10 to 90% RH, Non-condensing
Ambient storage humidity	10 to 90% RH, Non-condensing
Operating atmosphere	No corrosive gases, Indoor use
Ingress protection	IP30
EMC compliance	IEC 61326-1:2013
Environmental	RoHS Directive (EU) 2015/863

ORDERING INFORMATION

Part type	Ordering code	Description
PMM-392P	20.392.401	Temperature Extension Module

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Quality certification



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