

# Power Meter Monitor

Model: PMM0735 Document version: 1.2 Date: February 2022



# AI (TC) to (3.3/5) VDC

# **KEY FEATURES**

- Compatible with thermocouple type K
- Cold Junction Compensation
- Measured temperature range: 0°C to 1500°C
- Both power and signal isolated module
- There is no need for an external power supply; operating power supply is 5V DC
- Current consumption 10mA
- High reliability and accuracy
- Low linearity error less than ± 2°C
- Highly compacted size
- DIN rail mounting
- Operating temperature: -20°C to +83°C

#### **TECHNICAL DATA**

Input	Thermocouple K-type		
Input scale	0 -1500°C		
Output scale	0-5, 0-3.3V		
Operating temperature	-20°C to +83°C		
Storage Temperature	-45°C to 80 °C		
Operating Humidity	10 to 90% (No		
	Condensation)		
Storage Humidity	10 to 95% (No		
	Condensation)		
Degree of protection	IP54		
MECHANICAL DATA			
Width	66.5mm (2.6")		
Height	113mm (4.5")		
Depth	6mm (0.23")		
Weight	50 g		
Mounting typ <u>e</u>	Din rail		

### DESCRIPTION

PMM0735 is a simple, cost effective, and reliable module that converts temperature data from K-type thermocouple ranges from 0°C to 1500°C to 0-5V or 0-3.3V linear (4mV/°C) analog signals which is compatible with the controller at any industrial application.

PMM0735 offers high protection by rejecting common mode noise that may be picked up by long leads of thermocouples. As well as it has the ability of additional filtering due to the amplifier's high impedance input.

 PMM0735 is available in two versions, the differences between them are illustrated in the following table:

Version	Number of inputs	Isolation
1.1	2	Not isolated
1.2	1	Fully isolated



## SCHEMATIC AND WIRING DIAGRAM

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NUMBER	SIDE	DESCRIPTION
1	CPU	GND
2	CPU	Input 0-3.3V/0-5V
3	CPU	VCC 5V
4	FIELD	Thermocouple PIN 1
5	FIELD	Thermocouple PIN 2
6	FIELD	F.GND





