



**Dual Axis High Accuracy RS-485 Inclinometer**  
**Part Number: PPM-SCD1-VC**

**Operating Specifications**

Communications	RS-485
Supply Voltage	+10 to +30 V dc
Supply Current	< 50 mA @ 12 V dc
Operating Range	+/- 40 degree
Repeatability	< +-0.05 degree
Resolution	< 0.01 degree
Operating Temperature	-30 to +85 °C
Settling Time(Fast)	1s
Temperature compensation	-10 to +60 °C

**Physical Characteristics**

Housing	Alumina box
Electrical Connections	4 m Cable with AWG 24 (Custom lengths or type on request)
Weight	400 grams
Height	45 mm
Length	72 mm
Width	72 mm

**RS-485 Commands**

Requests command	No Command(Custom Command on request)
reply	*Temperature and angles that Described in manual

**Wiring**

Red	Supply voltage
Black & Yellow	Ground
Blue	RS-485 A
Green	RS-485 B

**Certifications and Ratings**

IP66

**RS-485 Setting**

Baud Rate	9600
Data Bits	8
Parity	None
Stop Bits	1

**Contact US**

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**Descriptions**

The PPM-MEM1R-485 inclinometer utilizes one 3D-MEMS-based dual axis inclinometer sensor and RS-485 signal conditioner. Its robust alumina housing and epoxy potting provide excellent durability and environmental protection. This inclinometer has compensated in temperature. Its small profile and economic design make it an ideal solution for a versatile range of applications in all sectors.

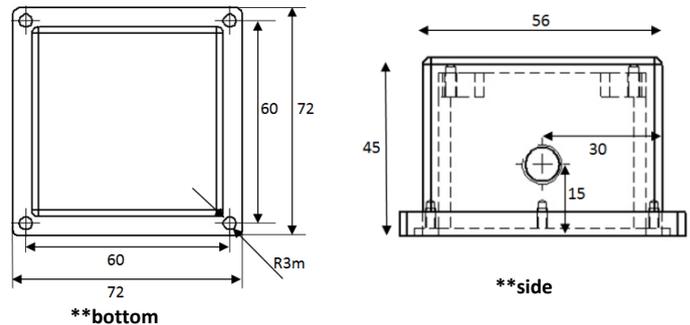
**Applications**

- » Platform leveling and stabilization
- » Leveling Instruments
- » Construction Levels
- » Machine Tool Leveling

**Mounting Notes**

The PPM-MEM1R-485 and all inclinometers in this series must be mounted horizontally (parallel to the surface of the earth and perpendicular to the force of gravity). For best performance, isolate the unit from vibrations when mounting it.

**Dimensional Drawings**



\* Dimensions shown in millimeters

\*\*Detail of Request Command and reply described in Manual