



Manual Tip Probe PT100_485

PT100_485 tip probe is designed for temperature measurements with manual insertion into ground or grain. It is assembled with high quality platinum sensing element PT100 and low noise electronics for high precision and long term stability.

Using microcontroller solution produces serial digital output with RS485 hardware interface. Sensor can work in poll mode or autonomous sending mode (regular time interval data on serial interface). User can setup serial line parameters as well as measuring and reporting interval.

Whole sensor is encapsulated against water with protection class IP68.

Mechanically - sensor output is connected with industrial standard M12 connector, which enables efficient replacement in the field.

Specifications

Measuring range	-40...+60°C
Accuracy in whole range	+/- 0.2°C
Noise (resolution)	+/- 0.001°C
Output interface	RS485
Baud rate	300 ... 115200bps
Measuring interval	1s ... 3600s
Report interval	1s ... 3600s
Working temperature	-40...+60°C
Power supply	4...24Vdc
Power consumption	2mA typ., 5mA max.
Protection class	IP68
Dimensions	insertion rod 21x Ø 0,6cm together with handle 33 x Ø 3,7cm
Connection	M12 male, 5 pin

Features

- high precision
- low noise (high resolution)
- long term stability
- output RS485
- low power
- watertight construction
- industrial connector M12