

**TOIP** Pty  
Ltd  
Telemetry Over Internet Protocol

# 8 Channel Precision Temperature Interface

The PT8-DR is a precision 8 channel PT100/PT1000 interface. Measurement and configuration is controlled via SDI-12 commands.

## PT8-DR

The PT8-DR is a precision 8 channel interface which can be used with PT100 or PT1000 thermistors.

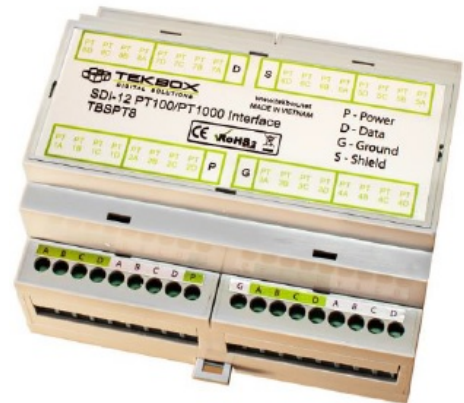
The interface is equipped with 4-wire inputs, matched noise filters, surge- and over voltage protection.

To achieve high precision, the PT8-DR is calibrated to an absolute accuracy of  $\pm 0.02^{\circ}\text{C}$  at  $0^{\circ}\text{C}$ , using a  $\pm 0.005\%$ ,  $\pm 2\text{ppm}/^{\circ}\text{C}$  resistance standard.

The device has a resolution of  $0.001^{\circ}\text{C}$  and a temperature drift less than  $\pm 0,01^{\circ}\text{C}$  over the temperature range  $-40^{\circ}\text{C}$  to  $+ 80^{\circ}\text{C}$ .

Noise is  $\pm 0,0015^{\circ}\text{C}$  when used with PT1000 sensors and  $\pm 0,01^{\circ}\text{C}$  when used with PT100 sensors.

The device can output the measurement results in  $^{\circ}\text{Celsius}$  or  $^{\circ}\text{Fahrenheit}$ . The unit is built around a DIN Rail case, allowing for easy mounting within standard instrument enclosures.



Parameter	Specification
Measuring Range	-80 to $+300^{\circ}\text{C}$
Accuracy	$\pm 0.02\%$
Resolution	$0.001^{\circ}\text{C}$
Power Supply	6 to 16 V DC
Operating Temperature range	$-40$ to $+ 8^{\circ}\text{C}$
Dimensions	115 x 90 x 57 mm

## Ordering

PT8-DR	8 Channel Precision Temperature Sensor Interface
PT100	PT100 Thermistor
PT1000	PT1000 Thermistor

TOIP Pty Ltd  
58 George St MOONTA SA 5558 AUSTRALIA

Email: [sales@toip.net.au](mailto:sales@toip.net.au) Web: <http://toip.net.au>

Phone: 08 8825 1208 Mob 04 9805 3413