

RTD and Resistance Input Options for SSP235

Option 5: RTD Input

The standard RTD (resistance temperature detector), is Platinum 100 (100Ω at 0°C), however any user specified type of RTD can be accommodated as long as there is no substantial non-linearity. With only 2 input terminals available, 2-wire RTD input connection only is available. Short lead lengths should be used, since the resistance of the leads are added as a measurement error. Sensor excitation current is as low as 0.6mA preventing self-heating of the sensor. Lead breakage will cause the output to increase to maximum (30mA).

Combined linearity

and drift error: 0.5% of span

Temperature effect: 0.01 % per °C

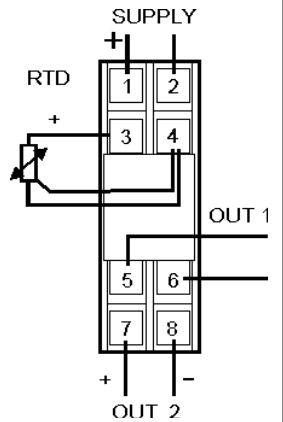
Input span: 7.8Ω up to 290.3Ω (20°C...850°C Pt100)

10°C range is also available with reduced accuracy

When ordering you must specify:

Sensor: (Pt100)

Cal: ? - ???°C



Option 7: Resistance 2-Wire

The resistance or slide wire receives a constant load independent current from a current source being part of the SSP235. This current source is configured for two basic ranges: 4mA or 40mA. Final adjustment is carried out by a 15-turn internal trim potentiometer to suit the resistance sensor.

Input span: 2Ω up to 5kΩ

Combined linearity

and drift error: 0.5% of input range.

When ordering you must specify:

Cal: ??-?? ohms (input span 0-2ohm up to 0-5k ohm)

