SPECIFICATIONS

Sensor input: User defined. The supported sensors are listed in **Table 1**, along with their maximum ranges.

Thermocouples: Types J, K, R, S, T, N, E, and B, according to IEC 60584 (ITS-90). Impedance >> 1 MΩ

Pt100: 3-wire type, Excitation 0.8 mA, α = 0.00385, according to IEC 60751 (ITS-90).

For 2-wire sensors, tie terminals 3 and 4 together.

Pt1000: 3-wire type, Excitation 0.65 mA, α = 0.00385, according to IEC 60751 (ITS-90).

For 2-wire sensors, tie terminals 3 and 4 together.

NTC $R_{25°C}$: 10 kΩ ±1 %, $B_{25/85}$ = 3435

Voltage: 0 to 50 mVdc. Impedance >> 1 MΩ

SENSOR TYPE	MAXIMUM MEASUREMENT RANGE	MINIMUM MEASUREMENT RANGE
Voltage	0 to 50 mV	5 mV
Thermocouple K	-150 to 1370 °C	100 °C
Thermocouple J	-100 to 760 °C	100 °C
Thermocouple R	-50 to 1760 °C	400 °C
Thermocouple S	-50 to 1760 °C	400 °C
Thermocouple T	-160 to 400 °C	100 °C
Thermocouple N	-270 to 1300 °C	100 °C
Thermocouple E	-90 to 720 °C	100 °C
Thermocouple B	500 to 1820 °C	400 °C
Pt100	-200 to 650 °C	40 °C
Pt1000	-200 to 650 °C	40 °C
NTC	-30 to 120 °C	40 °C

Output: 4-20 mA or 20-4 mA current, 2-wired; linear in relation to the temperature measurement by the selected sensor.

Output resolution: 2 μA

Power supply: 10 to 35 Vdc, across the transmitter

Maximum load (RL): RL (max.) = (Vdc – 10) / 0.02 [Ω]

Where: Vdc= Power supply voltage (10-35 Vdc)

Operating temperature: -40 to 85 °C

Humidity: 0 to 90 % RH

Electromagnetic compatibility: EN 61326-1:2006

No electrical isolation between input and output.

Internal protection against polarity inversion.

Cold junction compensation for thermocouples.

Dimensions: 43.5 mm (diameter) x 20.5 mm (height)

Connection wire cross section: 0.14 to 1.5 mm²

Screw tightening: 0.8 Nm

Housing: ABS UL94-HB

Certifications: CE and UKCA