

## novasens Infrared Temperature Sensor IR402

## At a glance

- High quality low-cost sensor for OEM applications
- Precise Germanium optics
- Thermocouple output type J or K or analog output 4-20 mA
- Robust sensor housing made of stainless steel
- Compact design due to integrated electronics in the sensor housing
- Low power supply: 6 24 VDC and 25 mA and 25 mA



The novasens IR402 infrared temperature sensor measures temperatures from -20°C to 250°C without contact and is equipped with a thermocouple output of type J or K or analog output 4-20 mA.

This output range is compatible with almost every machine control unit, PIB controller, display device, data logger, which have a thermocouple or analog input. The sensor is suitable for contactless temperature measurement of materials such as food, paper, textiles, plastics, leather, tobacco, pharmaceuticals, chemicals, rubber, coal and asphalt.

Due to the low price, the sensor is suitable for the replacement of previous sliding contact sensors and PT measuring sensors and for use in OEM applications or in multi-point measurement.

Specifications	
Measuring range	-20°C to +100°C 0°C to +250°C
Spectral range	8-14 μm
Emissivity correction	0,95 fixed
Dimensions	Length 103 mm x 18 mm Diameter with M16x1 thread
Permissible moisture	95 % not condensing
Permissible ambient temperature	0°C to +70°C uncooled
Distance to measuring spot/optical resolution	2:1 • 15:1 • 30:1
Accuracy	+/- 1% of reading
Repeat accuracy	0,5 % of the measured value
Reaction time T90	240 ms
Resolution	1/10°C
Outputs	4-20 mA analog output or thermocouple output type J or K
Output impedance	56 Ohm
Weight	95 grams (measuring head with 1 m cable)
Power supply	6-24 VDC (25 mA)
Protection class	IP65
Delivery scope	Sensor with 1m cable and mounting screw
Conformity	RoHS-Conformity, CE-Sign
Article number	0200402

