Online Infrared Temperature Sensor TS-400A

Product Features:

Contactless measured object

Safe to use and long life

4-20mA, RS485 output

Using infrared to measure temperature

0~100ºC, 0~200ºC, 0~300ºC 400ºC 500ºC TO 1200 ºC

Applications:

Metallurgy, Medical field, Food industry

Petrochemical, Electric power, Chemical industry, Light industry, Textile industry, Construction industry

National defense, Scientific research

Product Description

TS-400A Infrared Temperature Sensor measures infrared radiation energy through infrared detectors (thermal detectors and photoelectric detectors) and converts it into electrical signals, and then converts it into temperature according to the basic law of radiation, and displays the temperature signal through the display instrument , which is mainly composed of optical system, photodetector, signal amplifier and signal processing.

TS-400A Infrared Temperature Sensor can be used for temperature measurement in areas with high or low temperature, high voltage and high-speed machinery, and the measurer does not need to be close to these specific environments, and the product has fast response and high sensitivity. Due to the non-contact measurement, the measurement process will not change the temperature of the measured object, so the measurement results are true and reliable.

Features

No need to touch the target under test

Convenient for measuring hard-to-reach or moving targets

Fast response and high accuracy

Can meet the requirements of various working conditions

Simple installation, a variety of temperature measurement range optional.

Technical Parameters

Measuring range	0~100℃,200℃,300℃,400℃,500℃,600℃,700℃,800℃,900℃,1000℃,1200℃
Temperature measurement accuracy	±2% of the measured value or ±2℃, whichever is greater
Repeat accuracy	±1% of the measured value or ±1℃, whichever is greater
Signal output	4~20mA、RS485
Supply voltage	10~30VDC、5~30VDC(RS485)
Optical resolution	20:1
Emissivity	0.95
Response time	300 ms
Response wavelength	8-14um
Ambient temperature	0~60℃
Storage temperature	-40~85℃
Relative humidity	10~95% (no condensation)
Shell	304 stainless steel
Size	119mm×φ18.7mm (length * diameter)
Electrical connections	Direct out
Protection level	IP65

External Structure