

HY-IRS2E

infrared road temperature sensor

Overview

HY-IRS2E is a compact infrared temperature sensor. The optical analysis system is sited in a compact aluminium shell. An 90° adjustable mounting bracket allows an easy installation. It's designed for industrial, outdoor 7/24 monitoring. HY-IRS2E is compose of thermopile and a thermistor and working based a basic principle that All objects with a temperature above absolute zero emit electromagnetic radiation. The wavelengths and intensity of radiation emitted are related to the temperature of the object. By measuring the infrared radiation energy of their own, their surface temperature can be obtained by HY-IRS2E, which is also greatest advantage of HY-IRS2E.



Key features

- Pavement roadway surface temperature monitoring
- Bridge surface temperature monitoring
- Plant canopy temperature monitoring
- Surface temperature monitoring of soil, snow cover, grass

Specifications

Measure Range	-40-70°C
Accuracy	±1% or ±2°C
Distance to Target:Target Diameter	D:T=8:1
Resolution	0.1°C
Response Time	1 s
Spectral Range	8-14um
Output Interface	RS485

Protocol	ModBus
Operating Environment	-30°C to +80°C;
Optional protocol	-38 - 70°C; 0-100% RH
Power Supply	DC 7-15V
Power Consumption	10mA @ 12VDC
Dimension	130mm x Φ 40mm
IP Grade	IP65