

**PRODUCT OVERVIEW** 

# Infrared temperature sensor

Model ES-A900





### Application

- Remote measurement of road surface temperature;
- Bridge surface temperature monitoring;
- Plant canopy temperature monitoring;
- Grass temperature, soil surface or snow surface temperature monitoring

## Compliance

CE

The electromagnetic compatibility in accordance with the following applicable directives: LVD 2014/35/EU Low Voltage EMC 2014/30/EU Electromagnetic Compatibility EMC 2014/35/EU Electromagnetic Compatibility

#### Introduction

ES-A900 is an integrated infrared temperature detector. The optical system and electronic circuit are integrated in the metal shell. The protective cover is easy to install and the 90° adjustable bracket can be installed and measured continuously under various field conditions.

The interior of ES-A900 is composed of a thermopile and a thermistor. All objects are constantly emitting infrared radiation energy to the surrounding space. By measuring the infrared energy radiated by themselves, its surface temperature can be accurately determined. This is the principle of non-contact infrared temperature measurement. The infrared thermometer can calculate the surface temperature of the object by measuring the intensity of infrared radiation emitted by the target without contacting the target at all. This is its advantage.

#### Dimension

Unit:mm



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# Specification

Measuring range	-40–70°C
Measuring accuracy	±1% or ±1°C
Viewing angle	D:S = 8:1
Display resolution	0.1°C
Response time	1 second
Working band	8–14um
Output mode	RS485
Communication protocol	ModBus
Working conditions	-55 – 80°C; 0–100% RH
Supply voltage	DC7-15V
Power consumption	5mA @ 12VDC (working mode)

## Order guide

ES-A900	integrated infrared temperature detector			
	CODE	Range		
	D	-40–70°C		
		CODE	Signal output	
		1	RS485	
ES-A900	D	1	Order example	