

INTRODUCTION

As Integrated Infrared transmitter thermometers, the Metravi OIR series integrate a sensor, an optical system and an electronic circuit inside its stainless steel or aluminium alloy shell.

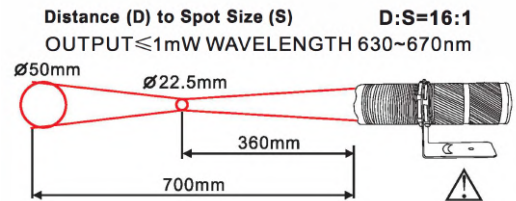
They can be installed very conveniently by making the standard screw thread on the product and at desired installation position.

Any object transmits infrared radiation, and the radiation intensity varies with temperature. Infrared temperature measurement uses thermal radiation within the range of wavelength 8-14um.

The infrared thermometer is a kind of hot-electron sensor which can receive the infrared radiation and transform it to a measurable electric signal, and its main assemblies are as following:

- Lens
- Spectrum filter
- Detector
- Electronic circuit (Amplifier/ Linearisation/ Signal processor)

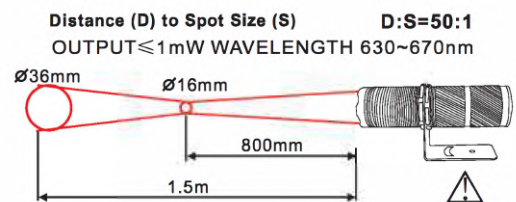
Light path of the infrared sensor is determined by the specification of the lens. The spectrum filter chooses the best spectral range for temperature measurement. The respective amount of infrared radiation then is transformed to electric signals by detector and the electronic circuit.



OIR-200 OIR-600

FEATURES

- High precision
- High optical resolution ratio
- Firm metal shell
- Large temperature range: -50°C~1800°C (-58°F~3272°F)
- Temperature range varies across models
- Output: 4-20mA
- Optimum test distance: 16 cms
- Size: 60mm x 198.5 mm



OIR-600L OIR-1200L OIR-1800L

*Technical Specifications & Appearance are subject to change without prior notice

TECHNICAL SPECIFICATIONS

SPECIFICATIONS MODEL NO.	OIR-200	OIR-600	OIR-600L	OIR-1200L	OIR-1800L
Temperature Range	-50 to 200°C	-50 to 600°C	-50 to 600°C	-50 to 1200°C	-50 to 1800°C
Distance to Spot Ratio	20:1	20:1	50:1	50:1	50:1
Spectral Response	8-14um				
Accuracy	≥ 100°C ±2%, ≤ 100°C ±2°C				
Repeatability	±1% or ±1°C				
Response Time	500ms				
Emissivity	0.95 fixed				
Power	24VDC				
Max. Current	50mA				
Analogue Output	RT-A: 4-20mA				
Isolation	Power, digital output and analogue output are isolated and do not interfere with each other				
Protection Level	IP65 (NEMA-4)				
Operating Environment	0-50°C; 10-95%				
Storage Environment	-20~50°C; 10-95%				
Shell Material	Stainless Steel		Aluminium Alloy		
Standard Wire Length	4m standard (or can be 5m or 10m or customisable)				
Standards	CE approval and protection against electromagnetic disturbance for EU standard				



*Technical Specifications & Appearance are subject to change without prior notice