

4-20 mA output infrared Temp,
IR Temp. TRANSMITTER

Model : TR-IR430

ISO-9001, CE, IEC1010



Lutron



LUTRON ELECTRONIC

The Art of Measurement

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IR Temp. TRANSMITTER

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FEATURES

* 4-wire installation.
* Linear current output .
* Easy installation and connection.
* Temperature range 0°C~600°C .
* Emissivity values range from 0.100 to 1.000
* Temperature Unit setting : °C / °F .
* Small and robust infrared temperature sensor.

General/ Electrical Specification (23 ±5°C)

Spectral range	8 to14 μm.
Distance	D:S = 20:1 (90% energy) * <i>measuring distance / spot size</i>
Measurement Temp. range	0°C~600°C (0.026 mA/°C). 32 °F to 1112 °F (0.014 mA/°F) .
Analog output	Analog output: 4 to 20 mA. * <i>linear to temperature.</i>
Loop impedance	Max. 500 Ω@24 V DC.
Emissivity	0.100~1.000 .
Response time	150ms (95%)
Accuracy	±1% of reading or ±1.5°C, which is greater.
Repeatability	±0.5% of reading or ±1°C, whichever is greater.
Connection cable	1 m length.
Power supply	Isolated Power 12VDC to 24VDC@20 mA. * <i>Ripple< 2.5%</i>
Operation Temp.	0°C to 70°C /32°F to 158°F.
Operation humidity	Max. 85% RH.
Housing	Stainless Steel Tube.
Mounting Nut	M22.
Dimensions	L= 110 mm x Φ=22 mm .
Weight	164 g.
Enclosure rating	IP50 .

* Spec. tested under the environment RF Field Strength less than 3 V/M & frequency less than the 30 MHz only.

Measurement Field distance / Spot (d/s) value

The optical diagrams indicate the target spot diameter at any given distance between the target object and the sensing head. The spot size will change in longer distance corresponding to the following drawing. In order to prevent measuring errors the object must be as least as big as the spot size.

