

*2 wires, 4 to 20 mA output, Infrared Temp. measurement  
0 ° C to 400 ° C (0.04 mA/° C), Industrial grade and heavy duty  
Non-contact Temp. measurement*

# **IR TEMP. TRANSMITTER**

**Model : TR-IR2W**

**ISO-9001, CE, IEC1010**



IR Temp. CONTROLLER/MONITOR. PIR-9959



**LUTRON ELECTRONIC**

***The Art of Measurement***

2 wires, 4-20 mA output , Infrared Temp.

# IR TEMP. TRANSMITTER

Model : TR-IR2W

## FEATURES

* 2-wire installation.
* Linear current output .
* Easy installation and connection.
* Small and robust infrared temperature sensor.

## SPECIFICATIONS

Spectral range	8 to14 $\mu$ m.
Distance	Spot Size = 20 : 1 . * <i>measuring distance / spot size</i>
Measurement Temp. range	0 ° C to 400 ° C ( 0.04 mA/° C ). 32 ° F to 752 ° F ( 0.022 mA/° F ) .
Analog output	Analog output: 4 to 20 mA. * <i>linear to temperature</i>
Loop impedance	Max. 700 Ohms@24 V DC. Max. 150 Ohms@12 V DC.
Emissivity	Fixed at 0.95 .
Response time	0.3 Seconds approximatelly.
Accuracy	2.0% of temperature reading. or 2.0° C/3.6° F, whichever is greater.
Repeatability	1% of measured value or 1° C/ 1.8° F, whichever is greater.
Warm up time	10 minutes
Connection cable	1 m length.
Power supply	Isolated Power 12VDC to 24VDC@20 mA. * <i>Ripple &lt; 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 $\Phi$ =22 mm .
Weight	164 g.
Enclosure rating	IP65 .

## CURRENT LOOP AND TAgET TEMP.

The following table 1 shows the relationship for the Current Loop Output with the Target Temperature. The different Current Loop Output is corresponding to the relevant target temperature.

Table 1: Current Loop Output & Target Temperature

Code	Current Loop Output mA	Target Temp ( ° C /° F )
1	4.00	0.0° C/ 32° F
2	8.00	100° C/ 212° F
3	12.00	200° C/ 392° F
4	16.00	300° C/ 572° F
5	20.00	400° C/ 752° F

## IR Temperature CONTROLLER/MONITOR

Model : PIR-9959 ,*optional*

- \* Input signal : 4 to 20 mA, 2 wires.
- \* Input sensor :  
Infrared Temp. transmitter, TR-IR2W.
- \* Measurement : 0 to 400 C degree, C/F degree.
- \* Control setting, Hi/Lo alarm setting.
- \* Control relay output, alarm relay output.
- \* Power : 90 ACV to 264 ACV, 50/60 Hz.
- \* Use the 4-20 mA input, IR temp. sensor can be installed in the faraway position.
- \* RS-232/USB computer interface.
- \* DIN size : 96 x 48 mm. Depth : 107 mm.
- \* IR Temp. Transmitter, TR-IR2W is the optional accessory.
- \* Optional USB cable, USB-01.
- \* Optional data acquisition software, SW-U801-WIN.
- \* Optional Excel data acquisition software, SW-E802.



\* Appearance and specifications listed in this brochure are subject to change without notice.

1303-TRIR2W