Infrared temperature

IR TEMPERATURE CONTROLLER/MONITOR

Model : PIR-9959 *ISO-9001, CE, IEC1010*

IR Temp. transmitter, TR-IR2W, optional

Lutron

LUTRON ELECTRONIC

The Art of Measurement

IR TEMP. CONTROLLER / MONITOR

Model : PIR-9959

FEATURES

* Input : 4-20 mA DC, 4 mA = 0.0 ℃ (32.0 ℉) or 4 mA = 0 ℃ (32 ℉) 20 mA = 400.0 ℃ (752.0 ℉) or 20 mA = 400 ℃ (752 ℉)
* User can default the Temp. unit to ℃ or ℉.
* User can default the resolution of Temp. value to 0.1 degree or 1 degree.
* When PIR-9959 cooperate LUTRON's 4 to 20 mA IR Temp. transmitters (TR-IR2W) , whole system will become the high performance Controller/Alarm/Indicator of no contact IR Temp. measurement system.
* Easy to adjust the function factors by push button on the front panel.
* Control output : 2 points (COM, NO).
* Alarm output : 2 points (COM, NO).
* Control Relay will make action when the reading value reach to control value.
* Hysteresis value setting for control and alarm function.
* Large red LED display, high brightness and easy to read.
* Microprocessor circuit ensures high accuracy and provides special functions and features.
* DC 24V power supply output, used for the power supply external IR Temp. transmitter.
* RS232/USB computer interface.
* Power : 90 ACV - 260 ACV, 50/60 Hz.
* Standard 96 X 48 mm DIN case.
* Optional data acquisition software.

SPECIFICATIONS

Measurement Range	0.1 ℃ resolution	0.0 to 400.0 ℃
	1 ℃ resolution	0 to 400 ℃
	0.1 ℉ resolution	32.0 to 752.0 ℉
	1 ℉ resolution	32 to 752 ℉
Display	* 4 digits red LED, 14 mm (0.55 inch) digit height	
	* 4 indicators : PV (process value) indicator SV (set value) indicator Control out indicator Alarm out indicator	
	* User can set the Temp. unit to ℃ or ℉ with default. * User can set the Temp. value to 0.1 degree or 1 degree with default.	
Input Signal	Linear, 4 to 20 mA ** It should cooperate the LUTRON's optional IR Temp. transmitter, TR-IR2W*	
Accuracy *@ 23 ± 5 ℃*	Span	± (0.15% + 2d) F.S.
	Zero	± (0.1% + 2d) F.S.
	** F.S. : full scale*	
Relay Output	Number	2 relays
	Function	*Relay 1 :* High/Low control relay. *Relay 2 :* High/Low alarm relay.
	Max load	0.5 ACA/250 ACV 0.5 DCA/24 DCV **** Do not apply the relay contact load current > 0.5 A, other wise the relay may be damaged permanently without warranty.***
Circuit	Custom chip of microprocessor LSI circuit.	
Sampling Time	Approx. 1 second.	

Main Internal Function Selection	* Display resolution setting : 1 degree or 0.1 degree * Low limit of range adjustment : 4 mA = 0.0 for ℃. 4 mA = 32.0 for ℉. * High limit of range adjustment : 20 mA = 400.0 for ℃. 20 mA = 752.0 for ℉. * Alarm value adjustment : High Alarm or Low alarm. * Control value adjustment High control or Low control. * Control hysteresis value setting. * Alarm hysteresis value setting. * Filter value of display reading * Offset adjustment. * Gain adjustment. * Temp. unit (C, F)
	Default of internal function : Without advice previously, the function of PIR-9959 will preset : * 4 mA = 0.0, 20 mA = 400.0 * High control mode. * High alarm mode. * Temp. unit is ℃.
Front Panel Function Selection	* Control set-point value adjustment. * Measuring value (Process value) offset. Use to offset the PV indication from the actual PV. * Alarm set-point value adjustment.
External Power Supply	DC 24 V, 50 mA max.
Data Output	RS 232 PC serial interface.
Operating Temp. and Humidity	Operating Temp. : 0 to 50 ℃. Operating Humidity : Less than 80% R.H.
Power Supply	90 to 260 ACV, 50/60 Hz.
Power Consumption	Approx. 9.2 VA/AC 110V. Approx. 12.0 VA/AC 220V.
Weight	384 g/ 0.84 LB.
Dimension	DIN size : 96 x 48 mm. Panel cut size : 92 mm x 46 mm. Depth : 110 mm.
Accessories Included	Instruction manual..... 1 PC Case holder with screw.....2 PCs
Optional Accessories	* Data Acquisition software, SW-U801-WIN. * RS232 cable, UPCB-02. * USB cable, USB-01. * SD card data logger, DL-9602SD.

4 to 20 mA IR TEMP. TRANSMITTER
Model : TR-IR2W, optional

* Appearance and specifications listed in this brochure are subject to change without notice. 1503-PIR9959