

Infrared temperature

IR TEMPERATURE CONTROLLER/MONITOR

Model : PIR-9959

ISO-9001, CE, IEC1010



IR Temp. transmitter, TR-IR2W, optional



LUTRON ELECTRONIC

The Art of Measurement

IR TEMP. CONTROLLER/MONITOR

Model : PIR-9959

FEATURES

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| * Input : 4-20 mA DC, 4 mA = 0.0 °C (32.0 °F) or 4 mA = 0 °C (32 °F) 20 mA = 400.0 °C (752.0 °F) or 20 mA = 400 °C (752 °F) |
| * User can default the Temp. unit to °C or °F. |
| * 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

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| Measurement Range | 0.1 °C resolution | 0.0 to 400.0 °C |
| | 1 °C resolution | 0 to 400 °C |
| | 0.1 °F resolution | 32.0 to 752.0 °F |
| | 1 °F resolution | 32 to 752 °F |
| 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 °C or °F 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 °C | 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. | |

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| Main Internal Function Selection | * Display resolution setting : 1 degree or 0.1 degree |
| | * Low limit of range adjustment : 4 mA = 0.0 for °C. 4 mA = 32.0 for °F. * High limit of range adjustment : 20 mA = 400.0 for °C. 20 mA = 752.0 for °F. * 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) |
| Front Panel Function Selection | 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 °C. |
| | * 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 °C. 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

