Edison ONGUARD®

INDUSTRIAL, HIGHLY RELIABLE, 4 CHANNEL RTD TEMPERATURE MONITOR NICKEL • COPPER • PLATINUM











I he Edison model 1604 monitor is designed to provide simultaneous, continuous surveillance of RTD's to monitor motor or other equipment's temperature for overheating. The RTD temperature is compared to the pre-selected trip points set by the customer, and when the temperature equals or exceeds the pre-selected value, a dedicated RTD alarm relay will trip. The alarm detail can be viewed to identify the alarm location and details. Two temperature set-points are available. Each channel has a dedicated alarm relay for the higher temperature, and there is a common relay for the pre-alarm set-point.

Each channel allows a memo to be inserted in a field that can be displayed in the event of an alarm. Incoming alarms can be viewed in detail at the display, while the event results are saved in a history text file. The 1604 monitor accepts industrial standard RTD inputs for Nickel, Platinum and Copper characteristics. There is no calibration required for the monitor.

Programming is implemented by utilizing a standard USB PC keyboard, temporarily connected to the front bezel. Preset temperature values can be programmed into the monitor as well as RTD - specific messages. At completion of programming, a configuration report can be printed out for review. History reports are available and can be viewed on the monitor or printed via a USB memory stick.

Open or shorted RTD's will initiate a fault menu to identify exactly where the problem exists. When the monitor is entered program mode, a fault will be issued. A dedicated fault relay will change state upon a fault or when the monitor is in program mode.

Process control

TYPICAL APPLICATIONS

- Rotating equipment
- Nuclear power plants
- Large motor bearings
- Refrigeration systems
- Coal-fired power plants

- Scientific and laboratory
- Infrastructure diagnostics
- Co-generation turbine plants
- Pipeline transmission facilities
- Remote gas pumping stations
- Temporary diagnostic monitoring

FUNCTIONS

- Enable/Disable control for each channel
- Selectable options for alarm on rising or falling
- Character field to allow naming of each RTD channel
- Selections available for latching or non-latching alarm relays
- Internal failsafe fault relay changes state on an open or shorted RTD

USER INTERFACE

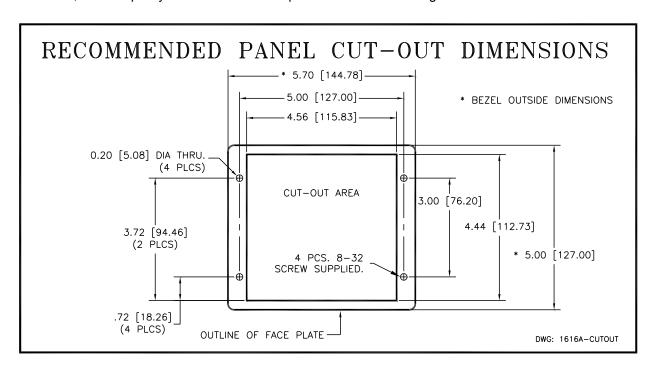
- Time and date calendar
- Security code required for accessing programming
- Custom messages appear on the display when an alarm occurs
- USB port allows history of events to be copied to a memory stick
- Easy to read blue 4-line X 20-character active matrix vacuum fluorescent display
- Monitor is programmed with a customer's USB keyboard temporarily connected to the front panel
- Optional connector for remote operation of panel keypads, to incorporate an explosion-proof housing

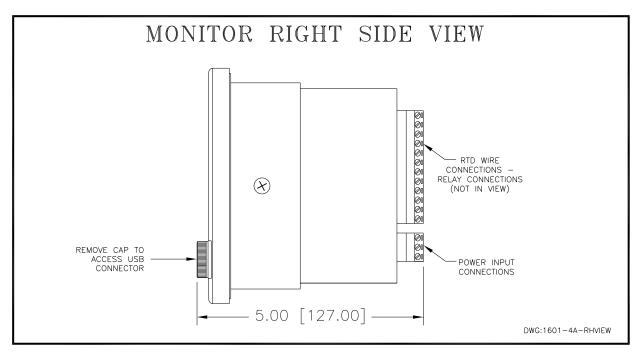
ELECTRICAL / ELECTRONIC

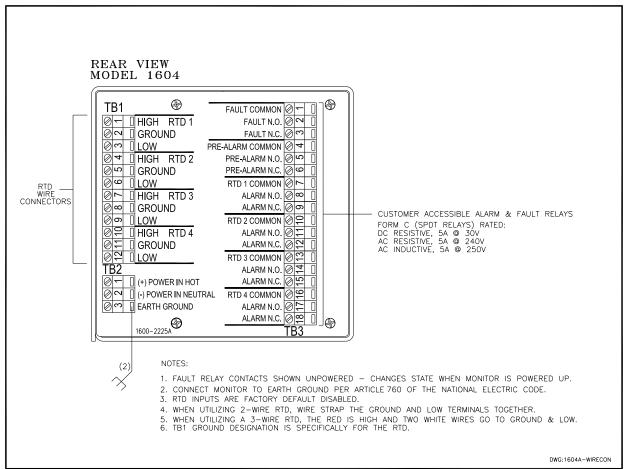
- 110V 230 VAC or 24 VDC power supplies are available
- Selection for Nickel, Platinum 8 or 11 and Copper RTDs
- RTD linearization is implemented within the microprocessor
- Powerful 24bit microprocessor-based monitor reads field RTDs
- All electrical connections are accessible from rear terminal strips

MECHANICAL

- Dust and splash-proof front bezel assembly is IP66 rated
- Robust, aircraft-quality 5052 alodine electroplated aluminum housing







Refer to allestec.com and procure a PDF manual of this product. Distributors that honor the Edison Onguard products are also listed.

SPECIFICATIONS

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ELECTRICAL				
MONITOR REQUIREMENTS	95-260 VAC, 50-440 Hz @ 9 watts quiescent, maximum 14.5 watts, all relays energized.			
ACCURACY @ 72 ° F, 22 ° C SPECIFIED FROM SENSOR INPUT TO DISPLAY OUTPUT	Sensor Style	Accuracy	Degrees F	Degrees C
	Platinum #8	+/- 1%	-202 to 1544	-130 to 840
51 . 5 2.5. 2.1. 55 5	Platinum #11	+/- 0.5%	-202 to 1364	-130 to 740
	Nickel #1	+/- 0.5%	-94 to 572	-70 to 300
	Nickel #7	+/- 0.25%	-94 to 572	-70 to 300
	Copper #15	+/- 1%	-58 to 482	-50 to 250
DC OHMS SCALE RANGE 0-512 OHMS RANGE	Allows measurement of RTD resistance within the specified RTD characteristic temperature scale as indicated in the manual.			
RESOLUTION	1° Displayed			
CLOCK / CALENDAR / DATA	Memory retained for 48 hours if input power is lost.			
MEMORY	Configuration and history data retained in nonvolatile memory.			
REMOTE KEYPAD	Optional connection for remote keypad operation.			
OUTPUT RELAY RATINGS ALARM & FAULT	DC Resistive 5 A @ 30 VDC AC Resistive 8 A @ 277 VAC AC Inductive 7 A @ 125 VAC, 3 A @ 277 VAC			
DISPLAY	4-character high X 20-character wide vacuum fluorescent, blue display (active ambience).			
ACTION	Display remains at 80% of luminescence after 15 minutes of inactivity, and returns to full intensity with any alarm action.			
MECHANICAL	IP-66 Rating in front of mounting panel.			
MOUNTING ORIENTATION	Any axis.			
CASE	Aircraft-quality 5052 1/16" thick aluminum, gold alodine electroplated. Polycarbonate bezel.			
ENVIRONMENT				
OPERATING TEMPERATURE	0 to 150 $^{\circ}$ F, -18 to 65 $^{\circ}$ C, 0 to 90% humidity, non-condensing.			
CASE	Aircraft-quality 5052 1/16" thick aluminum, gold alodine electroplated. Polycarbonate bezel.			
WEIGHT	3.1 lbs (1.405 kg), 50 oz.			



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