Thermalert® 4.0 Series
Infrared Pyrometers

Strong
Reliable
Diverse
Built for use in harshest environments, the Thermalert 4.0 Pyrometer withstands ambient temperatures up to 85 °C (185 °F) without extra cooling. The sensor supports many wavelengths and can be used for a broad range of applications. Intrinsically safe models are available for use in potentially explosive areas (dust, gas).

Designed to handle wider temperature ranges, this infrared sensor comes with superior in class optical resolution. 2-wire loop powered RS-485 as well as digital (Ethernet, EtherNet/ IP, PROFINET IO) and analog outputs are available to meet your process requirements. Galvanic isolated outputs ensure correct readings.

Sensors are rugged, smart and easy-to-install
Laser sighting available for all instruments
Backward compatibility with legacy sensors and accessories
Broad range of accessories available (high temperature enclosures, cables, etc.)
2-year warranty

The Thermalert 4.0 Series Pyrometers provide accurate temperature measurements for a wide variety of process control applications. With various types of communications, the Thermalert 4.0 sensor with laser aiming, provides the features you need to control your process in a compact, integrated package that is easy to install and operate.
Software

DataTemp® Multidrop software provides you with the tools you need to configure your sensors - then monitor temperatures on a real-time graphical display. The bar graph feature shows temperature profiles across a web or at various spots along a process. Use the program to record and archive your process temperatures. High and low alarms are shown, making it easy to identify out of range conditions.

Accessories

A wide variety of options and accessories are available to customize the installation of your Thermalert 4.0 Pyrometer.

Lens protectors and air purge collars offer protection in harsh environments. The Water-/air-cooled housings can be specified for operation in ambient temperatures up to 175 °C (315 °F).

For extremely harsh environments, the ThermoJacket is recommended.

This rugged cast aluminum housing protects the sensor in ambient temperatures up to 315 °C (600 °F). It completely encloses the sensor, combining thermal and mechanical protection with air purging of the lens. The Thermalert 4.0 Pyrometer can be installed or removed while the ThermoJacket is in its mounted position.
Key Features

- Durable stainless steel IP65 / NEMA4 enclosures designed to withstand ambient temperatures from -20 °C to 85 °C (-4 °F to 185 °F)
- Integrated laser sighting
- Galvanic isolated outputs
- Plastic lens option for food applications
- Analog input for ambient compensation and adjusting emissivity setting
- Multiple interfaces
  - 2-wire loop powered for analog communication
  - 12-wire M16 and 6-pin terminal block for digital communication (RS485)
- 4-wire Fieldbus
- Ethernet, EtherNet/IP, PROFINET IO
- HART Protocol optional
- Wide temperature ranges from -40 °C to 2300 °C (-40 °F to 4172 °F)
- Advanced signal processing
- Wide choice of focus distances
- ATEX/IECEx/CCC-IS certified models available

Compatibilities

Easy to upgrade from existing Raytek TX, XR or Marathon and Ircon Modline® 4 or 7 series installations. Direct fittings in old installation or adapter accessories allow you to use existing accessories.

The Fluke Process Instruments Guarantee

The Thermalert 4.0 Series is supported by a 2 year warranty. With a network of trained representatives and agents in over one hundred countries and offices located in the U.S., Germany and China, we provide local service and support.

Fluke Process Instruments

America
Everett, WA USA
Tel: +1 800 227 8074 (USA and Canada, only)
Tel: +1 425 446 6300
solutions@flukeprocessinstruments.com

EMEA
Berlin, Germany
Tel: +49 30 4 78 00 80
info@flukeprocessinstruments.de

China
Beijing, China
Tel: +86 10 6438 4691
info@flukeprocessinstruments.cn

Japan
Tokyo, Japan
Tel: +81 03 6714 3114
info@flukeprocessinstruments.jp

Asia East and South
India Tel: +91 22 62495028
Singapore Tel: +65 6799 9578
sales.asia@flukeprocessinstruments.com

Worldwide Service
Fluke Process Instruments offers services, including repair and calibration. For more information, contact your local office.

www.flukeprocessinstruments.com
© 2022 Fluke Process Instruments
Specifications subject to change without notice.
07/2022 6010791D