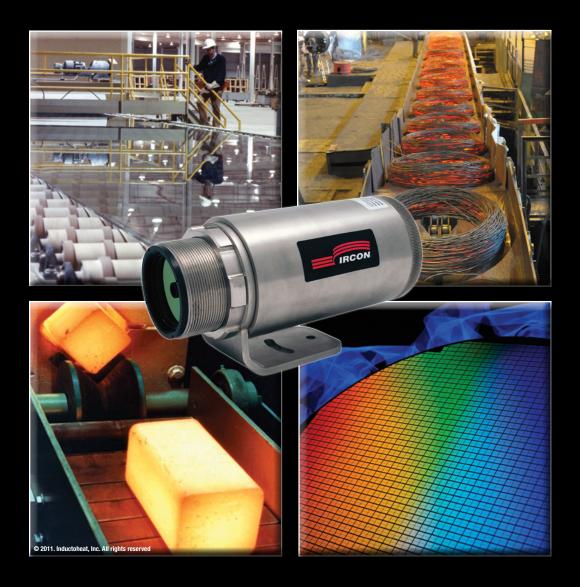
Modline® 7 Infrared Thermometers



Noncontact temperature sensors to serve a wide range of applications





Modline® 7 Highlights

Designed for rugged industrial environments, the Modline 7 sensors have 4 different series to choose from (75, 77, 78 & 74). All sensor components are sealed within an IP65 (NEMA 4)enclosure featuring standard motorized focus control, as well as through-the-lens and laser sighting. Also included is an integral stainless steel water cooled enclosure. All Modline 7 systems are backed with a 5 year warranty.

The sensing head can operate as a stand-alone sensor, providing simultaneous analog and digital outputs of process temperatures.

Sensor setup and monitoring can be accomplished either through the rear panel of the sensor or through the Modview™ Pro software, allowing the user to perform PC-based temperature monitoring, trending and archiving with an intuitive graphical user interface.

Alarms:

A programmable relay output can be triggered by:

- Product Temperature (process alarm)
- Sensor Internal Temperature (sensor alarm)
- Manually

Communications:

- Bi-directional RS-485 communications
- Windows ModView[™] Pro Software
- Field Calibration software

Features:

- Broad temperature range -40°C to 3000°C (-40°F to 5432°F)
- Spot size down to 1mm

Performance

| ccuracy | |
|---------|--|
| 75 | \pm 2°C or \pm 2%* for Tmeas < 350°C (662°F) |
| | \pm 1% of reading for Tmeas > 350°C (662°F) |
| 77 / 78 | ± 1% of reading |
| 74 | \pm 2°C for Tmeas < 0°C (32°F) |

| Repeatability | |
|-----------------------|---------------------------------------|
| 75 | \pm 0.5% of reading or \pm 0.5°C* |
| 77/78/74 | \pm 0.5% of reading or \pm 0.5°C* |
| *whichever is greater | · · · · · · · · · · · · · · · · · · · |

| Temperature Resolution | |
|------------------------|-------|
| All models | 0.1°C |

| Electrical | | |
|---------------------------|--|--|
| Power Supply | 24 VDC ± 20%, 500 mA | |
| Outputs Analog | 0 - 20 mA, 4 - 20 mA, 14 bit resolution, max. current loop impedance: 500 ohms. | |
| Digital RS-485 | Networkable to 32 sensors, Baud rate: 300, 1200, 2400, 9600, 19200, 38400, 57600, 115200. 4-wire mode (full-duplex) or 2-wire mode (half duplex), (2-wire: max. 38400 Baud), | |
| Relay | Contacts max. 48 V, 300 mA, response time < 2 ms, (software programmable) | |
| Display | 5 digit backlit LCD display | |
| External Input Voltage | 0 to 5 VDC functions: trigger, ambient background temperature compensation, emissivity setting, or laser ON/OFF switching | |

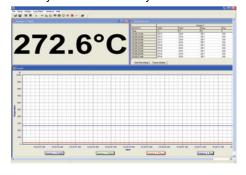
 \pm 1% of reading or \pm 1°C* for Tmeas > 0°C (32°F)

| Voltage | compensation, emissivity setting, or laser onvoir switching | |
|--|---|--|
| Environmental | | |
| Environmental rating | NEMA-4 (IEC 529, IP 65) | |
| ЕМІ | CE compliant to IEC 61326 | |
| Relative Humidity | 10% to 95% non-condensing | |
| Storage Temperature | -20°C to 70°C (-4°F to 158°F) | |
| Ambient Temperature with integral cooling | ŭ , | |
| with high temperature waterjacket cooling | water cooled 10°C to 315°C (50°F to 600°F) | |
| Vibration | MIL-STD-810D (IEC 68-2-6) 2G's, 10 - 150 Hz, 3 axis | |
| Mechanical Shock | MIL-STD-810D (IEC 68-2-27) 5G's, 11 ms duration, 3 axis | |
| Weight | 1.95 kg (4.3 pounds) | |

ModView[™] Pro Software

ModView Pro PC based software with built-in user interface displays target temperature and allows for sensor parameter adjustment to configure or fine tune your sensor remotely.

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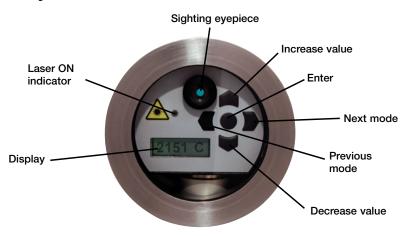


Modline 7 sensor with standard integral water cooling

The Modline 7 sensor with integral water cooling enclosure enables use in ambient temperatures up to 175°C (350°F).



Easy-to-Use Interface



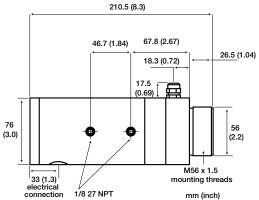
Modline 7 sensor with optional high temperature water jacket accessory

For high ambient temperature applications, the Modline 7 with high temperature water jacket and integrated air purge enables use in ambient temperatures up to 315°C (599°F).

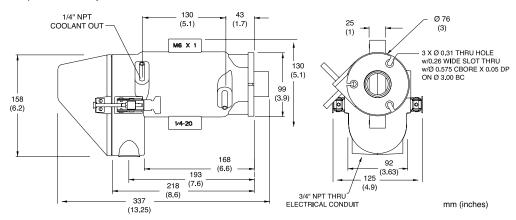


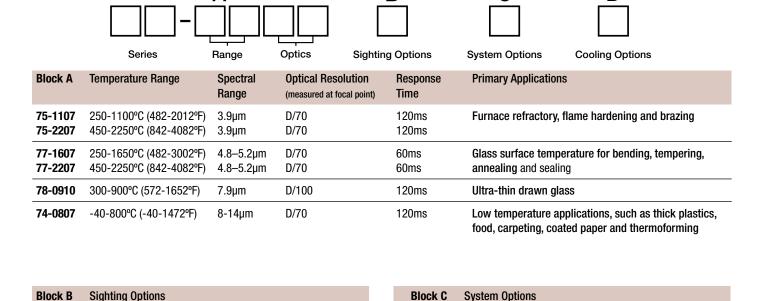
Physical Dimensions

Modline 7 sensor with integral water cooling and optional air purge collar



Modline 7 high temperature waterjacket





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Stand Alone Sensor

| Block D | Cooling | Ontions |
|---------|---------|---------|
| DIUCK D | Cooming | Options |

Visible/Laser Sighting

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0 Sensor with integral water cooling for ambient temperatures up to 175°C (350°F)

1 Sensor supplied with WJ-7 waterjacket accessory for ambient temperatures up to 315°C (600°F)

Accessories

| APA-7 | Aluminum air purge collar | POI-7 | Power supply (24VDC, 100/240VAC input) |
|----------|--|-------|--|
| APS-7 | Stainless steel air purge collar | | & terminal block mounted in a |
| RAM-7 | Stainless steel adjustable bracket | DO 7 | NEMA 4 (IP65) enclosure |
| WJMB-7 | Adjustable mounting base for water jacket | PS-7 | 24VDC 1.2A Industrial power supply, DIN rail mount (100/240VAC input) |
| WJMFST-7 | Mounting flange for use with sighting tubes | TSP-7 | Spare terminal block accessory |
| WJST12 | 30cm (12") Stainless steel sight tube (up to 800°C/1472°F) | 137-7 | Spare terminal block accessory |

The accessories shown are only a few of the many products available for Modline 7 sensors to support a variety of application needs. A complete list of power and communication accessories, protective windows and environmental protection products, as well as mounting brackets, can be found in the Modline 7 sensor manual. Please contact your local IRCON sales representative for detailed information.

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