PyroSigma

Miniature Pyrometer with Built-In Display



- Industrial infrared temperature sensor
- Temperature range 0°C to 1000°C
- Built-in OLED temperature display
- Fully configurable via push-button controls
- Voltage and alarm outputs
- Precision optics with narrow viewing angle
- Fast 125ms response with high stability
- Rugged aluminium and ABS housing
- Extremely small size: 30 x Ø31 mm
- Low cost and high performance

SPECIFICATIONS

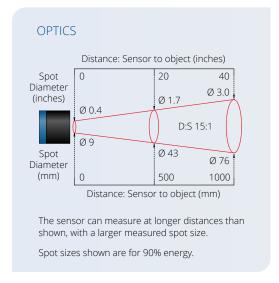
| General | |
|--------------------------------------|---|
| Measurement Temperature Range | 0°C to 1000 °C |
| Analogue Output | Selectable 0-5, 1-5 or 0-10 V DC, linear with measured temperature, rescalable via display & controls |
| Alarm Output | Open collector alarm output with adjustable temperature threshold and hysteresis |
| Accuracy | \pm 1.5% of reading or \pm 1.5°C, whichever is greater |
| Repeatability | \pm 0.5% of reading or \pm 0.5°C, whichever is greater |
| Emissivity Setting | Adjustable 0.20 to 1.00 via display & controls |
| Response Time | 125 ms |
| Spectral Range | 8 to 14 µm |
| Supply Voltage (at Sensor) | 24 V DC 6 V DC to 28 V DC (12 V DC minimum if using 0-10 V output) |
| Max. Supply Voltage (at Sensor) | 28 V DC |
| Min. Supply Voltage (at Sensor) | 6 V DC |
| Max. Current Draw | 30 mA |
| Max Temperature Span (Linear Output) | 1000°C (full temperature range) |
| Min Temperature Span (Linear Output) | 100°C |
| Open Collector Alarm Output | 6 to 24 V DC, 50 mA max (see Connections) |

| Mechanical | |
|-----------------------|--|
| Construction | Black anodised aluminium and blue ABS |
| Cable Length | 1 m as standard (longer lengths available to order) |
| Weight with 1 m Cable | 65 g |

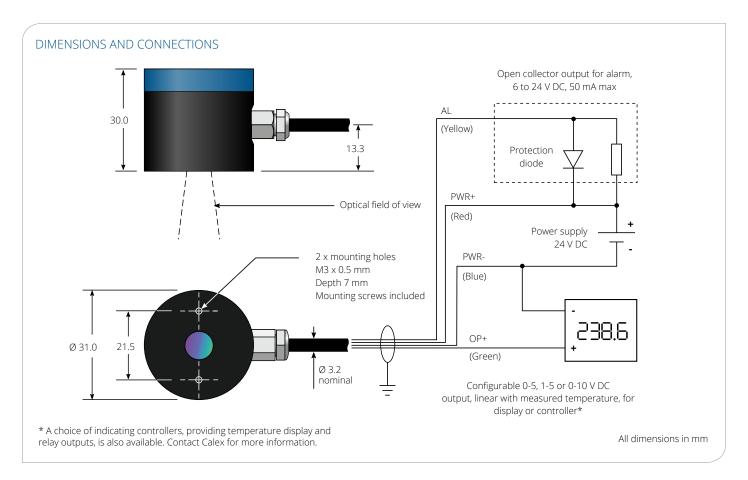
| Environmental and Conformity | |
|---------------------------------------|-------------------------|
| Environmental (IP) Rating | IP65 |
| Ambient (Operating) Temperature Range | 0°C to 70°C |
| Ambient (Operating) Humidity | 95% max. non-condensing |

| Configuration | |
|-------------------------|--|
| Configurable Parameters | Temperature range (linear output) Alarm output threshold and hysteresis Emissivity setting Reflected temperature |
| Temperature Units | °C / °F |
| Signal Processing | Averaging Period (0.25 to 60 seconds) |
| Peak/Valley Hold | Hold Period (0.25 to 1200 seconds) |

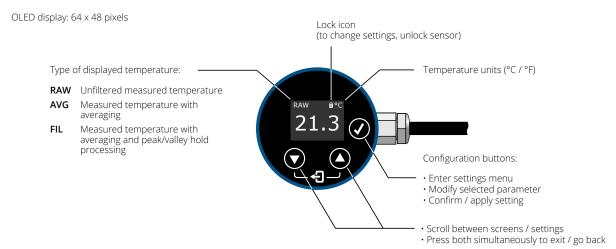
| Configuration | |
|--|--|
| Electromagnetic Compatibility (EMC) | EN61326-1, EN61326-2-3 (Electrical Equipment for Measurement, Control and Laboratory Use - EMC Requirements) |
| RoHS Compliant | Yes |
| RoHS Compliant | , |







DISPLAY AND CONTROLS



MODEL NUMBERS ACCESSORIES

