



SERIES 5000 Temperature Sensor for the Rolling Mill



Pyrometer in water cooled housing shown
without Air purge Nozzle Fitted

- **Three High Accuracy Digital Sensors covering temperature ranges from 300 °C to 1800 °C**
- **Robust Stainless Steel construction in totally encasing air/water cooled jacket .**
- **Attachable Air Purge Nozzle operating from non-instrument air**
- **Configurable via USB Interface and provided software**
- **Accuracy to $\pm 0.5\%$**
- **Configurable Analogue 4—20 mA Output**
- **Programmable emissivity of 0.5 to 1.00**
- **Fast 20 ms Response Time**

Typical Applications

- Furnace Exits - Rolling Mill Stands - Cooling Boxes - Annealing Lines

These Digital Series 5000 Temperature Sensors have been engineered to meet the harsh environments of the steel industry. This high performance temperature Sensor comes in three Models with wide temperature ranges to meet the demanding requirements of the Metals Industry.

With the introduction of USB interface these highly accurate yet in expensive Temperature Sensors are configurable to meet most requirements within the Mill.

The Sensor is completely encased in a Stainless water or air cooled Jacket and provided with an Air Purge Nozzle that does not require costly instrument air supply

Both emissivity and analogue output is configurable. Connection is straight forward connection to the PLC, alarm or temperature recorders. All Models are fully configurable on site via available software and USB Interface cable or alternatively can be provided at no additional cost to required emissivity and analogue range.

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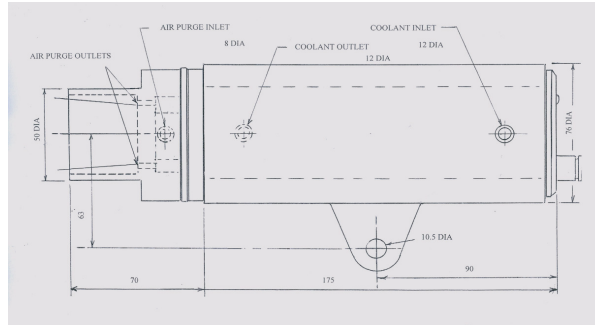
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Dimensions



Housing: Stainless Steel/Glass
Purge Nozzle: Anodized Aluminium
Housing Rating: IEC IP65
Vibration Rating: IEC 68
Cable Length: 2 M

In Air/Water Cooled Enclosure with
 Air purged nozzle

General Specifications

Model	5018-SIA	5013-GAA	5018-GAA
Temperature Range	650 °C to +1800°C	300 °C to +1300°C	350 °C to +1800°C
Spectral Range	0.8 to 1.1µm	1.45 to 1.8µm	1.45 to 1.8µm
Field of view	100:1	100:1	100:1
Accuracy	0.5%	0.5%	0.5%
Repeatability	0.1%	0.1%	0.1%
Response Time	20 ms	20 ms	20 ms
Emissivity	0.05 to 1,00	0.05 to 1,00	0.05 to 1,00
Operating Temperature	-0°C to +70°C	-0°C to +70°C	-0°C to +70°C
Supply Voltage	24 VDC +/- 25%	-0°C to +70°C	-0°C to +70°C
Rating	IP65	IP65	IP65
Target Spot size at 1 mtr	15 mm	15 mm	15 mm
Target Spot Size at 4 mtrs	75mm	75 mm	75 mm
Max Ambient with Water Cooling	90°C	90°C	90°C
Max Ambient with Air Cooling	80°C	80°C	80°C
Adjustments provided	Response time, peak picker mode & restriction of measuring range vi USB Interface Module provided		

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We reserve the right to alter specifications without prior notice. Specifications without tolerances are typical values.

Your Local Sales Representative:



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