



Accurate Sensors Technologies

Highly Accurate Infrared Non Contact Pyrometer

100°C...600°C

FR 3000

Features:

High accuracy in real world conditions
 Capable of measuring targets with variable emissivity
 Temperature range: 100-600°C / 212-1048°F
 Rugged design
 Full range of accessories
 Wide range of built-in functions
 Pointing laser source: Class II

Application:

Forging, continuous casting, Cold rolling.

Performance:

Tmin (Emissivity $\epsilon=0.3$)..... 120°C
 Tmin (Emissivity $\epsilon =1.0$, Black body).....100°C.
 Response time: 0.1 - 10 Sec (Default value: 0.5 sec)

Accuracy (blackbody)

Above 300°C = $\pm 0.3\%$ of measured value
 300-200°C = $\pm (0.3\% + 1^\circ\text{C})$
 200-150°C = $\pm (0.7\% + 1^\circ\text{C})$
 150-100°C = $\pm (1.0\% + 2^\circ\text{C})$

Electrical specifications:

Power supply: 24V (18 - 36V) DC 0.4A
 Optional outputs: 4-20 mA, 0-20 mA, 0-10 V, RS-232, RS-422, RS485, Alarms, Profibus.

Optional:

Display P110 monochrome single channel
 Scanning System PS3000.

Mechanical specifications:

Sensor overall dimensions: 273 x 127 x 113.5 mm
 Sensor weight: ~3.5 kg

Ambient condition:

Operating temperature range: 0°C ° to +50°C
 Storage temperature range: -20°C ° to +70°C
 Humidity: unlimited for the sensor-head

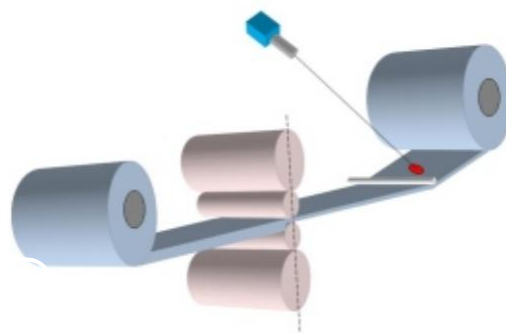
Optics:

Spot diameter: 1:50 (20mm from a distance of 1 meter)
 Various optics is available upon request.



FR 3000 Pyrometer

Possible applications



Cold Rolling



Rod Coiling

We measure accurate temperature in extreme conditions

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