Single Color Pyrometer

Single (One) color infrared pyrometer is primarily used in the metallurgical industry to measure temperature of steel, Billet, Slab, hot rolled steel, refractories, etc. The pyrometer can "look" into a process and measure the target temperature from a distance, providing an accurate reading while eliminating problems associated with contact measuring devices. Single color infrared pyrometer is used to the measure relatively flat area with installation between 45° and 90°. Complete spot should be filled by hot metal to measure the right temperature, precaution should be taken to avoid dust, water and water vapor at the point of measurement.

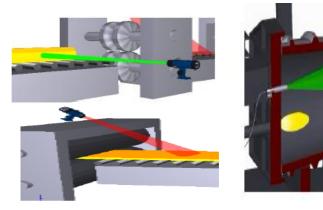


<u>PM</u> –	XXXXX –	<u>XXX</u> –	<u>XXX</u>
Base	Temperature range	Fiber optic option	Power Input
Model	25S11=250° to 1100°C	FOC=Fiber Optic	024 = 24 VDC
	30S14=300° to 1400°C	Blank=Standard	110 = 110 VAC
	60S16=600° to 1600°C		220 = 220 VAC

Operating Temp	-20°C to +55°C (-4°F to +130°F). With cooling water: +120°C (250°F)		
Accuracy	0.5%		
Repeatability	0.1% (±2°C, ±3.6°F)		
Response Time	Adjustable – the fastest response time is 20 ms		
Display Mode	4 digit LEDs. Display peak, valley, average or real time options		
Analog Output	Linear 4-20 mA (or 0-20 mA) proportional to temperature		
	Linear 0-10 VDC proportional to temperature		
Alarm Output	High or low process temperature alarm, rated 0.2 A at 220 VAC, 0.5 A at		
	30 VDC, MOS relay output. Ambient temperature high or low alarm		
Housing	Sealed stainless steel enclosure rated IP66, includes purge air and cooling		
	water connections.		
	Optional fiber optic lens assembly includes air purge fitting		
Size	Enclosure: 370 mm L x 100 mm W x 190 mm H (14.5" L x 4" W x 7.5" H), 4 kg		
	(8.8 lbs)		
Laser Aiming	Visible aiming laser, wavelength 630 nm ±10%, Power≤3 mW. Class 2 laser		
Self-testing	Self-test activates when test pin connected to 0 VDC OR test button is press at		
	the back		

Features

- Designed for harsh environment with IP66 enclosure
- Integrated air purging and cooling water connection
- Back panel adjustment
- Laser pointer for alignment
- Easy to install
- Fast response time



Applications

- Measurement of product temperature inside Reheating Furnace
- Billet / Slab / Sections / TMT Bar
- Measure temperature of slabs, billets, blooms, bars, liquid steel

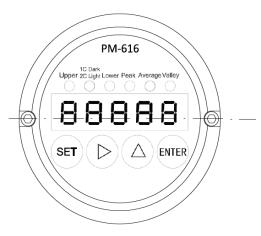
Additional Options

- Junction Box Includes AC/DC converter and terminal connections
- Shroud Sheet metal protective cover
- Support Stand Steel Construction adjustable for mounting sensors.
- Remote Temperature Display Unit (UTD-1)

Logika Technologies Inc. 1250B Reid Street, Unit 12, Richmond Hill, ON Canada L4B 1G3 Web: www.logikatech.com Phone: 905-597-7272 Fax: 905-597-7278 Email: <u>info@logikatech.com</u> Cable Terminal Wiring Description.

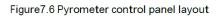
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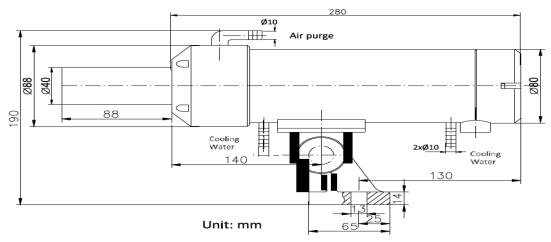
Cable No.	Color	Function	Junction Box Number	Junction Box Name
1	Brown	+24VDC	1	+24V
2	Red	0V	2	0V
3	Orange	Analog 0-10V Output	3	0-10V
4	Yellow	Analog 4-20mA Output	4	mA
5	Green	Analog Output Ground	5	AGND
6	Blue	PNP output (Upper limit alarm)	6	PNP
7	Purple	Upper limit alarm closed=Alarm	7	UPPER1
8	Grey	Upper limit alarm Common	8	UPPER2
9	White	Lower limit alarm closed=Alarm	9	LOWER1
10	Black	Lower limit alarm Common	10	LOWER2
11	Sky blue	RS485 A	11	RS485 A
12	Pink	RS485 B	12	RS485 B



Single color pyrometer Model

Model No	Measuring Range	FO	Wave Length
PM25S11	250 to 1100	YES	1.6 µm
PM30S14	300 to 1400	YES	1.6 µm
PM60S16	600 to 1600	YES	1.0 μm





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