

## STURDY & COMPACT SINGLE COLOR NARROW BAND IR PYROMETERS

### ROBUST Series

*ROBUST Series of single-color pyrometers measure the temperature of object by receiving the sum of the energy it emits in a narrow band. It adopts advanced software and hardware design, with super wide dynamic range and high stability.*

#### Common Features :

- Si (Silicone Photocell) detectors : Various Models to cover Temperature range from 600°C to 2500°C
- InGaAs detectors : Various Models to cover Temperature ranges from 150°C to 2500°C
- Accuracy : upto 0.5%, Resolution : 0.1°C, Response time : 5ms to 99.99s
- Manual adjustable focus
- Equipped with full range temperature compensation to avoid the influence of ambient
- Industrial OLED screen as display interface
- Programmable 4 types of analog output options, 1 channel alarm output, 1 channel level output 1 channel RS485 communication interface
- Support bus cascade connection of up to 26 pyrometers, and realize network control through PC (in selected models)
- Built-in visible high brightness green light or eyepiece aiming (on select models)



#### Accessories :

- 1) Air Purge Unit - Model : RAA – 1
- 2) Water Cooling Jacket (with integral air purge) - Model : RWJ – 1

#### **ROBUST Series Pyrometers**

*Specially designed with manual adjustable achromatic focal lens, high reliability circuit, ambient temperature compensation and real-time signal processing, for precise temperature controls in critical applications. Suits for almost all Medium /High temperature process applications*

Model	SD/6016	SD/6022	SD/6030	SD/7025	ID/1508	ID/2012	ID/3014	ID/2516	ID/3525
<b>Temperature Range</b>	600°C-1600°C	600°C-2200°C	600°C-3000°C	700°C-2500°C	150°C-800°C	200°C-1200°C	300°C-1400°C	250°C-1600°C	350°C-2500°C
<b>Detector</b>	Si (silicone photocell)				InGaAs (Indium gallium arsenic)				
<b>Spectral Response</b>	0.85-1.1 μm			1.45-2.1 μm		1.45-1.7 μm			
<b>Accuracy</b>	±0.5% R (Measured value)								
<b>Repeatability</b>	±2°C								
<b>Temperature Resolution</b>	0.1°C								
<b>*Optical Resolution (D:S)</b>	100:1	100:1	100:1	200:1	60:1	100:1	100:1	60:1	200:1
<b>#Measuring Distance</b>	Standard focus distance : 0.35m to infinity adjustable, Near focus distance : 0.15m to 0.5m adjustable								
<b>Emissivity</b>	0.10 to 1.100, adjustable in 0.001 increment								
<b>Response Time</b>	Fastest 5ms, 5ms - 99.99s Adjustable								
<b>Signal processing</b>	Peak / Valley / Average Temperature Values, Ambient temperature High/Low Alarm, Power down protection								

Model	SD/6016	SD/6022	SD/6030	SD/7025	ID/1508	ID/2012	ID/3014	ID/2516	ID/3525
<b>Outputs</b>	Multiple analog outputs : 16bit (4mA ~ 20mA, 0mA ~ 20mA, 0V ~ 5V, 0V ~ 10V option) Alarm Outputs : Upper limit, Lower limit alarm Digital Output : RS485 Output								
<b>Display</b>	Industrial - grade self - luminous OLED display								
<b>Power Input</b>	DC (20 – 30) V , with over voltage, over current and short circuit protection								
<b>Aiming (focusing) Method</b>	Green visible aiming laser or eyepiece								
<b>Operating Temperature</b>	Without water cooling : - 20°C to +60°C With water cooling: - 20°C to +200°C								
<b>Environment Protection</b>	IP65								

\*Consult us for customized optical resolutions

# Consult us before ordering

### Focusing Options

**L - LED AIMING** : Adjustable focus lens, LED green light aiming indicates the size of the measuring target. LED light source is suitable for detection of targets in close-distance installations.

**E- EYEPIECE AIMING** : Adjustable focus lens, visual aiming through is suitable for high temperature objects and closed environment and Remote target detection

### Optional Accessories

#### **Air Purge Accessory - Model : RAA-1**

Air purge Accessory, Model MAA-1 is designed to effectively prevent deposition of dust in the lens assembly of the pyrometer and is suitable for situations where ambient temperature is not high. The installation angle can be adjusted; even if purge cover is installed .it can effectively prevent dust - suitable for use under the circumstance of low ambient temperature.

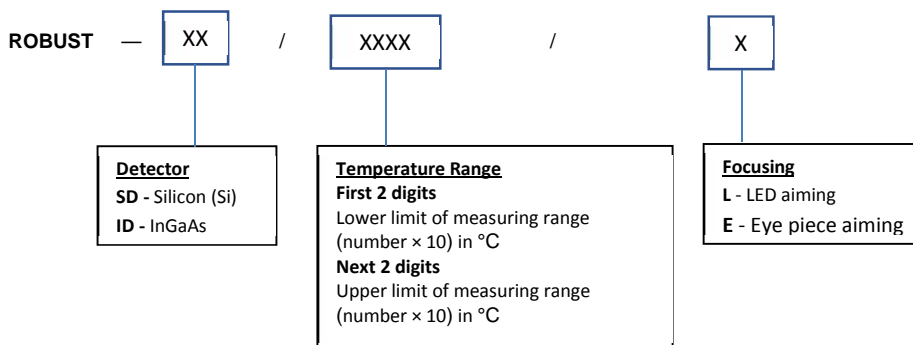


#### **Water Cooling and Air Purge Jacket - Model : RWJ - 1**

Water cooling jacket (fitted with air purge) is suitable for harsh working conditions (more dust, higher ambient temperature). It is designed to effectively prevent deposition of dust in the lens assembly of the pyrometer as well to withstand the ambient temperature from -20°C to +200°C



### Model Identification /Ordering Chart



Manufactured by

**NAGMAN INSTRUMENTS AND ELECTRONICS PRIVATE LIMITED**

AN ISO 9001 : 2015 CERTIFIED COMPANY

170/1a2, Chennai Bangalore Highway Road, Sembambakkam, Chennai – 600 123. INDIA.

Phone : 044 – 66777000, 011, 021, 031 • EMail : fpi@nagman.com • Website : www.nagman.com

Specifications subject to change owing to continuous development. Contact us for latest Datasheet.



May 2022