

Industrial Pyrometry System

Specifications Data Sheet

<i>Item Description</i>		<i>Qty.</i>
Pyrometer	Measuring Temperature Range: 180°-1300°C Emissivity: Adjustable 0.050–1.200 Analog Output Signal: 4–20 mA Serial Interface: RS232 Power Supply: Should take 50 Hz & 230V as input and output of power supply should be compatible with pyrometer Proposed Model: M318 of Sensortherm or equivalent	2
PID Program Controller	Display: Backlit LED display to show measurements Temperature Units: To show temperature either in °C or °F Input: Pyrometer with temperature range 180°-1300°C Thermocouple input of type K, R & S Analog Control Output: 4–20 mA switchable to 0-10 V, 0-5 V Digital Outputs: Minimum 6 digital switching outputs Interface with PC: USB / RS232 / RS485 Power Supply: Should take 50 Hz & 230V as input and output of power supply should be compatible with PID controller Program Parameters: Setpoint value, ramp time, hold time, integral time constant, differential time constant, minimum control output power, maximum control output, pyrometer emissivity, setpoint limits for digital outputs, sensor selection for temperature measurement, start delay, pyrometer parameters. Proposed Models: Regulus RF/RD of Sensortherm or equivalent	2
Software	Measurement Display: Graphical and numerical temperature display Measured Value Recording: Should be able to record and save temperature values continuously. Pyrometer Parameters: Can be changed and are always in view Control: Direct visual control of a running process.	
System Must Include	Hard transportation case, large eyecup, calibration certificate, necessary system maintenance and troubleshooting tools, computer/laptop, color printer and connection cables. Operational and maintenance manuals/user guide should be provided both in hard and soft forms.	
Additional Accessories	Cable: SS braided hose connection cable with length of 20m or more to connect pyrometer with PID controlling unit in panel. Three 90° deflecting mirrors: Should be able to deflect the visual axis of the pyrometer to 90°. Interface Converter: RS232 to USB, RS485 to USB Installation: Necessary equipment for installation of pyrometer at different temperature measuring angles.	
Note	<ul style="list-style-type: none"> The supplier may provide catalogue in English along with quotations. European, Japanese and USA brands are preferable. 	