

## AST E L50

Highly Accurate Digital pyrometer with Extended Optical Head, Inbuilt LCD and Keypad for Parameterization

CE 0-800°C

The **AST E L50** is digital pyrometer with extended optical head in 4 wire technology for non-contact temperature measurement between 0°C and 800°C.

The optical head is unaffected by electromagnetic interferences. The pyrometer is equipped with a display which shows in measuring mode the current temperature. Additionally all parameters can be read and changed via integrated keys.

AST E L50 are optionally provided with USB 2 connector with cable. The pyrometer can be powered through USB port of the laptop computer. In this case no external power supply is required.

Analog output is 4...20mA or 0...20mA or 0...10V user selectable.

Serial interface RS 485 is available as optional. The provided software can be used for remote parameter setting and data logging.

- ❖ **Wide temperature range (0...800°C)**
- ❖ **In built LCD**
- ❖ **Parameter can be adjusted via integrated keypad or interface.**
- ❖ **RS 485 Isolated (optional)**
- ❖ **USB 2.0 (optional)**



### Standard Scope of supply

- ❖ AST E L50 with LCD Display and keypad for parameterizing , Sensor head with 1 m cable.

### Optional

- ❖ Sensor head extention cable.
- ❖ Relay : One optically isolated relay, 60 VDC/ 42 VAC RMS, 0,4 A
- ❖ RS 485 Interface and PC software for parameterizing/data logging
- ❖ USB output with PC Cable and software for parameterizing/data logging

### Applicable in Industries

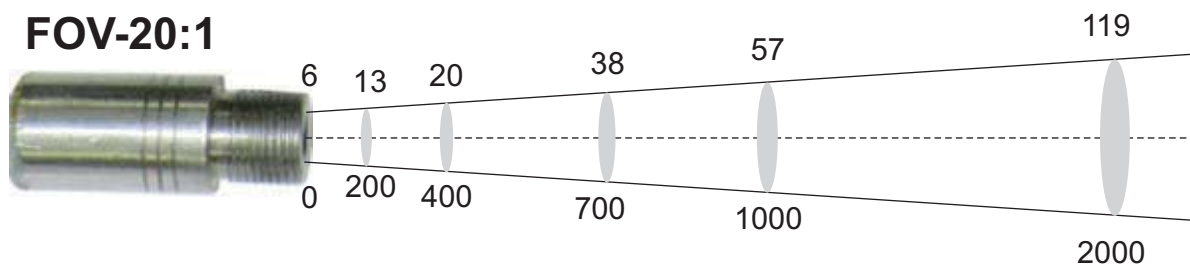
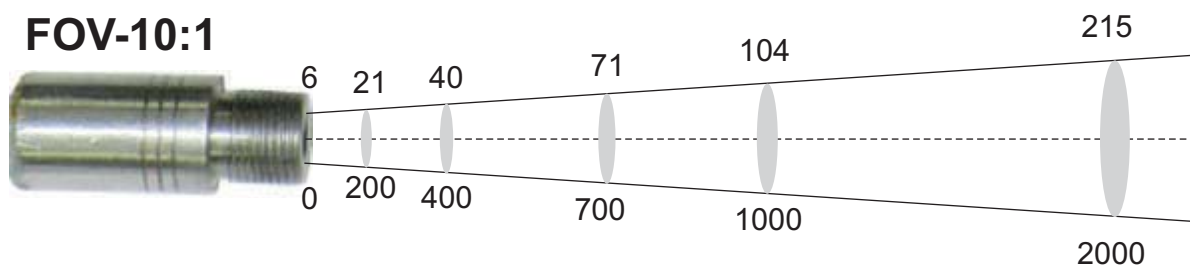
Plastic, Rubber & Ceramic  
Paper  
Textile  
Fluids  
Oxide/Painted metal surface,  
Wood and Glass Industries

***We Measure Temperature Accurately even in extreme Conditions***

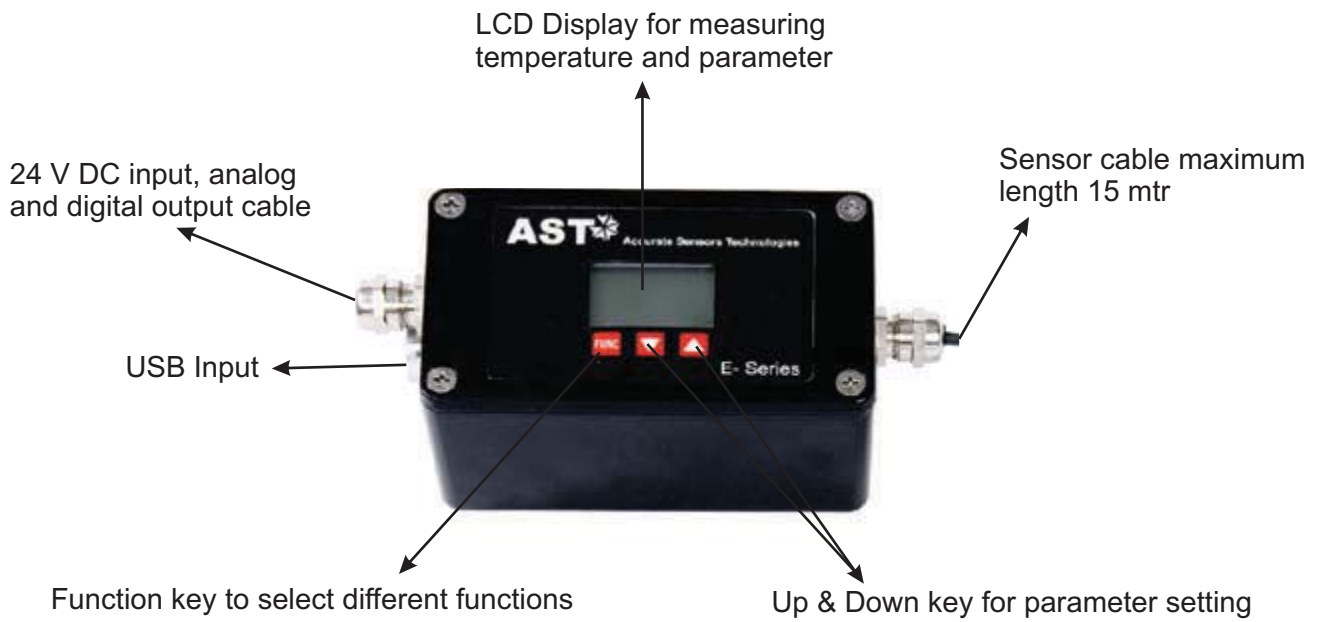
# TECHNICAL SPECIFICATION

<b>Model</b>	<b>AST E L50</b>
Measured Temperatures Range	0 °C - 800 °C (Analog output sub range adjustable)
Spectral Range, $\mu\text{m}$	8.....14 $\mu\text{m}$
Photodetector Type	Thermopile
Distance to spot size ratio	10:1 or 20:1
Response Time	60msec adjustable upto 10s
Accuracy & Repeatability	+/-1.5% of temperature reading or +2°C (Optical head should be at constant ambient temperature)
Emmissivity	0.1 ..... 1 adjustable
Operating temperature range	Electronic and optical head 0.....70 °C
Analog Output	4-20mA or 0-20mA or 0-10V user selectable
Digital Output (Optional)	RS 485 (ISOLATED) or USB 2
Relay Output (Optional)	1 Relay output with hysteresis 60 VDC/ 42 VACRMS, 0,4 A
Power Supply	24 V DC
Resolution	0.1 K
Storage temperature	-20 to +70 °C
Dimensions & weight	115 x 65 x 55 (L x W x D), 320g
Protection class	IP 65
Adjustable Parameters via Keypad/software	Emissivity, Analog output, Address, Response time, Peak picker, Analog output Sub Range.

## Optical Specifications



# SETTING AT THE INSTRUMENT



## Optional Accessories

- ❖ Air purge unit for sensor head
- ❖ Adjustable mounting clamp for sensor head
- ❖ Power supply unit (SMPS)
- ❖ RS 485 to USB converter
- ❖ USB cable



Adjustable mounting for optical head  
Reference No. 8200 - 04



Air purge unit with mounting clamp  
for optical head  
Reference No. 8300 - 01



Power supply input 110/230 AC  
Output 24 V DC, 0.75Amp  
Reference No. 9000 - 02



Converter, RS 485 to RS 232  
Reference No. 9000 - 03

USB O/P with PC  
cable & software : 9000-04

Rs485 O/P with PC  
Software : 9000-05

Relay O/P-1 isolated  
relay 16V : 9000-06

PRC Technologies Corp., Ltd.

Tel: 02 530 1714, 02 530 1619, 02 530 1621

Fax: 02 530 1731

Email: [info@prctechth.com](mailto:info@prctechth.com), [www.prctechth.com](http://www.prctechth.com)