*IR*tech Radiamatic IR60 GT

Fiber Optic Process Infrared Thermometers for Heavy Industry applications

*IR*tech
Infrared Technology

- Temperature range up to 1800°C

- Fiber optic
  Optical resolution up to 100:1
  Close focus 0,5mm

- 1μm or 1.6μm
  Spectral response

- Laser target pointer

- Analog output 4-20mA

- Up to 250°C of ambient
  temperature without cooling

- Up to 2mS response time

- Signal processing

- RS232 or RS485

- IR Settings Windows software

CE

IRtech Radiamatic IR60 GT is a fiber optic infrared thermometers specially designed for hard environment like glass application, oven, semiconductor or induction heating. The fiber optic is heat resistant up 250°C without the need of cooling. The output is linear 4-20mA. The laser aiming simplify the alignment of the thermometer on the target identifying the real area of measurement. The laser can be powered and switched on directly by keyboard or remotely by digital interface.The powerful signal processor allow to adapt the measurement to the requirement of the application.

www.irtec.it

Features are related to all models equipped with full configuration. On next pages you can find specific details.

IRtech Radiamatic IR60 GT
Fiber Optic Infrared Thermometer for Heavy Industry applications

Models

Models	IR60 GTH	IR60 GTL
Temperature range	600 - 1800 °C	300 - 1300 °C
Accuracy 23°C±5°C	±0,5% or ±1°C **	±0,5% or ±1°C **
Repeatability 23°C±5°C	±0,2% or ±1°C **	±0,2% or ±1°C **
D:S target ratio	100:1	up to 0,5mm
Spectral response	1 μm	1,6 μm

** E=1, response time 1s

Common specifications

Emissivity / Gain / IR windows :
Adjustable 0.10 - 1.00
Working temperature:
Sensing head : -20 to +250°C
0 to +70°C / 10-95% RH non condensing
Storage -20 to +85°C
Response time :
2 mS to 10sec
Analog output :
0/4-20mA

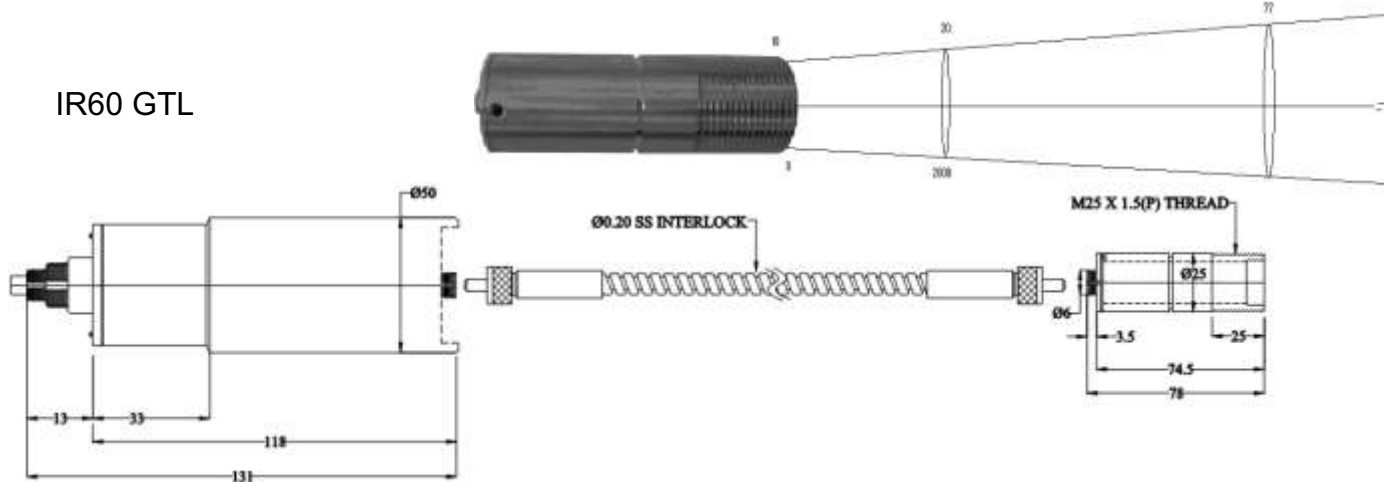**Digital output :**
RS232 isolated or RS485
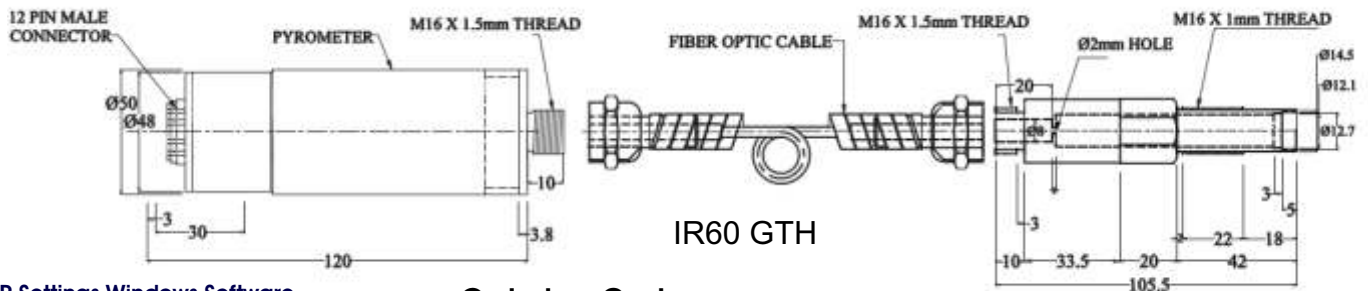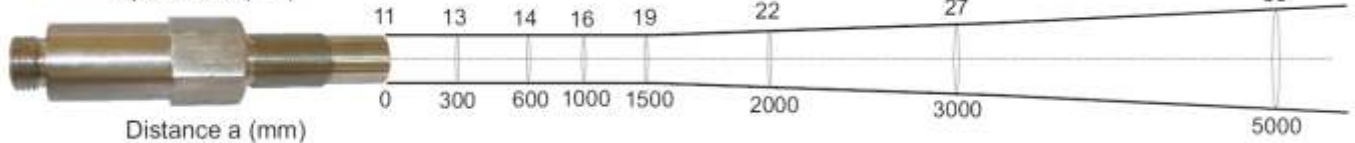**Power supply**:
24 V DC +-10%
Functions:
Peak picker, average, emissivity, hold.

IR60 GTL

Ø50
Ø0.20 SS INTERLOCK
M25 X 1.5(P) THREAD
Ø25
Ø6
3.5   25
74.5
78
13   33
118
131

Spot Size M (mm)
11 13 14 16 19   22   27   38
0 300 600 1000 1500 2000   3000   5000
Distance a (mm)

12 PIN MALE CONNECTOR
PYROMETER
M16 X 1.5mm THREAD
FIBER OPTIC CABLE
M16 X 1.5mm THREAD
M16 X 1mm THREAD
Ø2mm HOLE
Ø14.5
Ø12.1
Ø12.7
Ø50
Ø48
20
10
3
30
120
3.8
3
10   33.5   20   42
105.5
22 18

IR60 GTH

• IR Settings Windows Software

Software allows sensor setup and remote control. The real time graphic display and datalogging show the temperature trends with fast sampling.

Ordering Code

Code	Model			
IR	*IRtech* includes head, fiber optic, electronics & instruction manual.			
	Table A	**Range**		
	60 GT L	300-1300°C		
	60 GT H	600-1800°C		
		Table B	**Optics**	
		SF	Standard optic without laser	
		SFL	Standard optic with laser	
		CFx	CF1 2@75mm, CF2 4@150mm, CF3 8@300mm (GTL only) + L for Laser	
			Table C	**Fiber Optic**
			C3	3mt fiber optic
			C5	5mt fiber optic
			C10	10mt fiber optic
				Table D	**Report of Calibration**
				0	none
				CC	EA traceable with data
				.	
IR	60 GT H - SF -	C5 -	0	*Typical ordering code*