

E instruments group

IRtech Radiamatic IR6 810SP

Low cost Micro Infrared Thermometers

IRtech
Infrared Technology

- Temperature range -30° to 1000°C
- Micro Size : M18 x 100mm
- Optical resolution 15:1
- 8-14 m Spectral response
- Analog output 0-5/0-10V Thermocouple type K
- Led Alarm built-in
- up to 80°C of ambient temperature without cooling
- 25mS response time
- Internal signal processing' including emissivity setting
- Power supply 5-30 V DC

CE



IRtech Radiamatic IR6 is a very compact infrared thermometer. It uses a powerful microprocessor for signal processing to allow fast measurements. It can work analog or digital mode. On analog mode a scalable 0-5 or 10 V output is available. On digital mode a serial interface can be connected to PLC or you can use an USB module for PC connection. Through this interface you can use IR settings software to modify all parameters including emissivity, peak picker, average and hold. A built-in led on the bottom provide an alarm status condition for easy maintenance purpose. The low cost allows many application on low temperature on automation application.



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

Models

Models	810 SP
Temperature range	-30 - 1000 °C
Accuracy 23°C±5°C	±1.5% or ±1.5°C *
Repeatability 23°C±5°C	±0,75% or ±0.75°C *
D:S target ratio	15:1
Response time	25 mS
Spectral response	8-14 m

* whichever is greater

** E=1, response time 1s

Emissivity / Gain / IR windows :
Adjustable 0.100 - 1.000

Working temperature:
-20 to +80°C / 10-95% RH non condensing
(50°C with laser on). Storage -20 to +85°C

Vibration & Shock:
IEC 68-2-6: 3G, 11-200Hz, any axis
IEC 68-2-27: 50G, 11mS, any axis

Environmental rating :
IP63

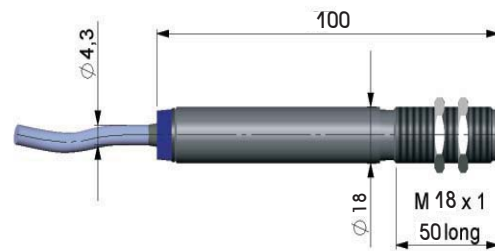
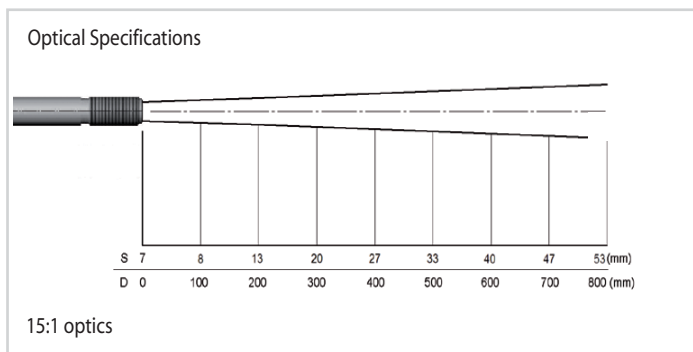
Common specifications

Analog output :
0-5V or 0-10V, Thermocouple type K
1/3/8/15 mt cable

Digital output and Inputs :
USB optional
Input programmable for external
emissivity/ambient temperature
settings (0-5V) or hold function.

Power supply:
5-30V DC

Functions:
Peak hold, Valley hold, average.



Ordering Code

Code	Model
IR6	IRtech IR6 includes 2 mounting nuts, 1 mt cable & instruction manual.
Table A Range	
810SP V	-30 to 1000°C 0-5V or 0-10V out put
K	0 to 500°C TcK out put
Table B Cable	
C3	3 meters cable (instead 1mt)
C8	8 meter cable (instead 1mt)
C15	15 meters cable (instead 1mt)
Table C Report of Calibration	
0	none
CC	EA traceable with data
IR6 - 810 SP V - C3 - 0 T	Typical ordering code