

# E instruments

## IRtech Radiamatic IR100 Mk2

Fiber Optic Process Infrared Thermometers

**IRtech**  
Infrared Technology

- Temperature range up to 1800°C
- Fiber optic  
Optical resolution up to 40:1  
Attenuation up to 95% (2 color)
- 1 $\mu$ m or 2 color  
Spectral response
- Laser target pointer
- Analog output 4-20mA, V, Tc J/K
- 2 Alarms board
- Up to 250°C of ambient  
temperature without cooling
- Up to 5mS response time
- Signal processing
- Remote Control Display with settings
- USB / RS232 / RS485 / Profibus  
and Ethernet interface with  
IR Settings Windows software



IRtech Radiamatic IR60 and IR100 are fiber optic infrared thermometers with split architecture using a passive measuring head connected with separated electronics module through fiber. The 2 color IR100, due to ratio principle is insensitive to dust or partial target quite independent from emissivity. The standard remote control display make easy to startup and maintenance. All the settings, including emissivity, are available on panel and can be modified with built-in keyboard. 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 temperature of the measuring head is monitored switching off the laser if over 70°C to avoid any damage. The modular capability allow to install various digital interface and a board with two relays of alarms. This will avoid to install an additional panel meter. The powerful signal processor allow to adapt the measurement to the requirement of the application.



