innovative infrared temperature sensors and instrumentation
PyroSigma
Miniature pyrometer with built-in display
0°C to 1000°C
Selectable voltage output
Fully configurable via built-in display and controls
Choose this sensor if:
- Available space is limited
- You need a small, low-cost sensor
- You want to see the measured temperature in-situ

PyroCouple, PyroEpsilon
Small, one-piece pyrometers
-20°C to 500°C
Simple, low-cost
Choice of digital or analogue outputs, including thermocouple
Choose these sensors if:
- You don’t need any special features
- Your target is a non-reflective non-metal, or is painted

PyroNFC
Smartphone-configurable pyrometer
0°C to 1000°C
Voltage, thermocouple and alarm outputs for process instrumentation
Read the temperature and configure the sensor via Android app
Choose this sensor if:
- You need a very small, low-cost sensor
- You need a voltage output
- You want to perform spot checks on the sensors

PyroMini
Touch screen, data logging and more
-20°C to 2000°C
Miniature sensing head and optional touch screen
Optional high-ambient sensing heads
Choose this sensor if:
- You need alarm relay outputs
- You need to view the temperature or log data
- The air temperature is hot (up to 180°C)

PyroUSB
PC configurable, with 4-20 mA output
-40°C to 2000°C
Wide temperature ranges
Analogue and USB outputs
Choose this sensor if:
- You need to measure below -20°C
- You need to measure bare metals below 100°C
- You need to measure the temperature of glass, or measure through a glass window

PyroMiniUSB
For PC based data acquisition
-20°C to 1000°C
Use the included software, or use your own
Ideal for benchtop, laboratory and education
Choose this sensor if:
- You need a small, low-cost benchtop sensor
- You need to connect the sensor directly to your own software

FibreMini
For metals and harsh environments
250°C to 2000°C
Fibre optic sensing head for harsh ambient conditions
Optional touch screen with data logging and alarms
Choose this sensor if:
- The air temperature is very hot (up to 200°C)
- There is a lot of electromagnetic interference
- You need continuous laser aiming while taking measurements

PyroMini OEM
Low-cost pyrometer for machine manufacturers
Miniature sensing head with right-angled cable entry and separate electronics module
Sensing head withstands 120°C ambient temperature
Choice of current, voltage or thermocouple outputs
Choose this sensor if:
- You need a small, low-cost sensor
- You are measuring a non-reflective non-metal surface

ExTemp
Safe in hazardous areas
-20°C to 1000°C
Certified Intrinsically Safe for explosive atmospheres
4-20 mA two-wire output, USB configuration
Optional USB configuration tool and RS485 network adapter
Choose this sensor if:
- You need an ATEX, IECEx or TIIIS certified sensor

PyroMiniBus
Pyrometer with RS485 Modbus for multi-channel systems
-20°C to 1000°C
RS485 Modbus RTU direct to sensor
Optional display, analogue and relay output modules
Install as a standalone system or connect to a Modbus network
Ideal for continuous process temperature monitoring
Choose this sensor if:
- You need to monitor multiple points
- You need a simple, all-in-one solution, or you have an existing Modbus PLC or SCADA

PyroCAN
Pyrometer with CAN Bus communications
-20°C to 1000°C
Raw CAN protocol
Ideal for vehicle-based applications in industry, agriculture and automotive testing
Choose this sensor if:
- You need a sensor with CAN Bus communications

PyroCube S, F
For small targets and fast measurements
0°C to 500°C
Small measured spot size (from 1.6 mm)
Fast response time (1 ms / 10 ms)
Built-in LED aiming light
Choose this sensor if:
- You need a faster response time than 240 ms
- You need to measure an area smaller than 10 mm
- You need continuous aiming while taking measurements
**Dual 4-digit displays**, DIN rail or wall mounted

- Relay, analogue, SSR outputs
- RS485 Modbus

**Choose this indicating controller if:**
- You need a DIN rail or wall mounted device
- You need analogue retransmission of the process value

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**Relay, analogue, SSR outputs, RS485 Modbus**

**Provides emissivity adjustment for PyroEpsilon sensor**

**Choose this indicating controller if:**
- You need an extremely small measured spot size (smaller than 1.6 mm)

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**PyroCube XS**

For extremely small targets

- 0°C to 500°C
- Extremely small measured spot size (0.7 mm or 1.0 mm)
- Built-in LED aiming light

**Choose this sensor if:**
- You need an extremely small measured spot size (smaller than 1.6 mm)

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**For fast, precise measurements of glass surface temperature**

- Specialised measurement wavelength for glass
- Fast response time and small measurement area
- Built-in LED aiming light

**Choose this sensor if:**
- You need a faster response time than 200 ms
- You need to measure a small area on the surface of glass
- You need to know where the sensor is being aimed

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**PyroCube G**

For thin plastic film

- Specialised measurement wavelength for plastic film
- Fast response time and small measurement area
- Built-in LED aiming light

**Choose this sensor if:**
- You need to measure the temperature of plastic film

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**PyroCube P**

For measuring metals with a small spot size and fast response

- Specialised measurement wavelength for metals
- Fast response time and small measurement area
- Built-in LED aiming light

**Choose this sensor if:**
- You need to measure a small area on a bare metal surface
- You need a faster response than 200 ms
- You need to know where the sensor is being aimed

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-ST640 Series

Low-cost handheld IR thermometer

- -35°C to 550°C
- Laser sighting
- Optional Type K thermocouple input

**Choose this thermometer if:**
- You need the lowest-cost thermometer

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**ST680 Series**

High-performance handheld IR thermometer

- -50°C to 1000°C
- 50:1 optics for precise long distance measurements
- Alarms, USB, thermocouple input options

**Choose this thermometer if:**
- You need to measure very low or high temperatures
- You need to measure small objects at long distances
- You need Type K input and USB communications

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**FTK**

Portable infrared temperature checker

- Choice of fixed temperatures from 35°C to 150°C
- Quick, accurate way to check calibration of IR sensors
- Compact and portable

**Choose this blackbody if:**
- You need a small, portable calibration device
- You need the lowest-cost option

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**BB976 and BB982**

Blackbody calibration sources

- Variable temperature:
  - -10°C to 80°C (BB982)
  - 30°C to 550°C (BB976)
- Extremely high emissivity > 0.995
- Built-in temperature indicator

**Choose this blackbody if:**
- You need the highest possible temperature accuracy

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**PM180**

6-channel Modbus indicator for Calex sensors

- Temperature display and configuration for up to 6 sensors
- Optional relay and analogue output modules
- Connect as a slave device to another network
- Data logging to MicroSD Card
- Compatible with PyroMiniBus, PyroMini BB/BRT, FibreMini BRT

**Choose this indicator if:**
- You need local display for multiple infrared temperature sensors

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**DRR245**

DIN rail mounted indicating PID controller

- Dual 4-digit displays, DIN rail or wall mounted
- Relay, analogue, SSR outputs, RS485 Modbus
- Provides emissivity adjustment for PyroEpsilon sensor

**Choose this indicating controller if:**
- You need a DIN rail or wall mounted device
- You need analogue retransmission of the process value

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**ATR121**

Panel-mounted indicating PID controller

- 3-digit display, panel mounted
- Relay, SSR outputs
- Time-proportioned open/close logic for PID

**Choose this indicating controller if:**
- You need the lowest-cost indicator or controller

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**ATR244**

Multi-function indicating PID controller

- Dual 4-digit displays, panel mounted
- Relay, analogue, SSR outputs RS485 Modbus and NFC commas

**Choose this indicating controller if:**
- You need 3 relay outputs
- You need a quick, easy way to configure the controller
- You need analogue retransmission of the process value

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**PyroCube M**

For measuring metals with a small spot size and fast response

- Specialised measurement wavelength for metals
- Fast response time and small measurement area
- Built-in LED aiming light

**Choose this sensor if:**
- You need to measure a small area on a bare metal surface
- You need a faster response than 200 ms
- You need to know where the sensor is being aimed