

product summary





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)



PvroUSB

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



PyroMini OEM

Low-cost pyrometer for machine manufacturers

Miniature sensing head with rightangled 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 area

-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 TIIS 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 system 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



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)



PyroCube G

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



PyroCube P

For thin plastic film

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

Choose this sensor if:

You need to measure the temperature of plastic film



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



Excelog 6

Data logger with SD Card storage

4 x thermocouple inputs

2 x RTD inputs

Touch screen display
Built-in rechargeable battery

USB connection for live logging

Mains power adapter/charger

On-screen alarms

Choose this data logger if:

You need to log data from sensors with thermocouple output, or RTDs



ST642

Handheld IR thermometer with Type K thermocouple input

-35°C to 550°C

Laser sighting

Type K thermocouple input

Tripod mounting thread

Adjustable emissivity

Choose this thermometer if:

You need an IR thermometer with a thermocouple input

You need a fully adjustable emissivity setting



ST633

Low-cost pocket-sized IR thermometer

-32°C to 535°C 10-point memory

Backlit display
Three selectable emissivity settings

Choose this thermometer if:

You need the lowest-cost thermometer



ETK

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



BB976 and BB982

Blackbody calibration sources

Variable temperature:

-20°C to 125°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



M180

6-channel Modbus indicator for Calex

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



DRR244

DIN rail mounted indicating PID controller

Dual 4-digit displays, DIN rail or wall mounted

Relay, analogue, SSR outputs, RS485 Modbus

Easy configuration via app Emissivity adjustment for PyroEpsilon

Choose this indicating controller if:

You need a DIN rail or wall mounted device

You need analogue retransmission of the process value



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





ATR244

Multi-function indicating PID controller

Dual 4-digit displays, panel mounted

Relay, analogue, SSR outputs RS485 Modbus and NFC comms

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

www.calex.co.uk

Calex Electronics Ltd Leedon House | Chartmoor Road | Leighton Buzzard | Bedfordshire | LU7 4TN Tel: +44 (0)1525 373178 | Email: mail@calex.co.uk

