

product summary

innovative infrared temperature sensors



PyroNFC Smartphone-configurable

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



PyroCouple, PyroEpsilon, PyroBus 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



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

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 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



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



0°C to 500°C

Extremely small measured spot Fast 10 ms response time **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



For extremely fast measurements

50°C to 500°C Super-fast 1 ms response time Built-in aiming light **Choose this sensor if:** You need a faster response time than 10 ms



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-film plastics

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



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



ExTemp Safe in hazardous areas

-20°C to 1000°C Certified Intrinsically Safe for explosive atmospheres 4-20 mA two-wire output, USB configuration

Choose this sensor if:

You need an ATEX, IECEx or TIIS certified sensor



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:**

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



STR571 8-channel Modbus indicator

Panel mounted display for 8 Modbus variables 2 alarm relay outputs

Connect as a slave device to another network

Choose this indicator if:

You need a low-cost, panel-mount Modbus indicator



PyroMiniBus Pyrometer with RS485 Modbus for multi-channel systems

Optional 6-channel display Optional analogue and relay outputs Install as a standalone system or connect to a Modbus network Ideal for continuous process temperature monitoring

Choose this system if:

FTK

Portable infrared

35°C to 150°C

temperature checker

Choice of fixed temperatures from

Quick, accurate way to check

Choose this blackbody if:

You need the lowest-cost option

You need a small, portable

calibration of IR sensors

Compact and portable

calibration device

You need to monitor multiple points You need a local display You need a simple, all-in-one solution



Panel PCs

Industrial computers with temperature monitoring software

7" or 10" screen sizes

USB and RS485 Modbus interfaces Use as a standalone system, or transfer data live to other systems via Modbus TCP

Choose this panel PC if:

You need to monitor temperatures at a large number of points You need to see temperature values and graphs

You need to log data and access it over a network



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



BB976 Medium-temperature blackbody calibrator

Variable temperature 30°C to 550°C Extremely high emissivity > 0.995 Built-in temperature indicator

Choose this blackbody if:

You need the highest possible temperature accuracy You need to calibrate at temperatures higher than ambient



BB982 Low-temperature blackbody calibrator

Variable temperature -10°C to +80°C Extremely high emissivity > 0.995

Extremely high emissivity > 0.995 Built-in temperature indicator Choose this blackbody if:

You need the highest possible temperature accuracy You need to calibrate at temperatures lower than ambient



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



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



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