

CALEX

ELECTRONICS LIMITED

innovative **infrared temperature sensors**
low-noise industrial **power supplies**



shortform **catalogue**





PyroNFC

Smartphone-configurable pyrometer

-20°C to 1000°C
Voltage and alarm outputs for process instrumentation
Read the temperature using the NFC smartphone 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



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



PyroCube

For small targets and fast measurements

0°C to 500°C
Extremely small measured spot
Lightning fast 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



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 current 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 through glass



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 aiming while taking measurements



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



PyroMiniBus

Multi-channel miniature pyrometer system

Optional local 6-channel display
Optional analogue and relay outputs
Install as a standalone system or connect to an RS485 Modbus network
Ideal for continuous process temperature monitoring

Choose this system if:

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



PyroNet Z

Wireless infrared temperature measurement system

Battery-powered transmitter, DC-powered receivers
Single or multi-channel receiver options
Ideal for periodic condition monitoring

Choose this system if:

You need to replace a cable run
You need to install sensors where cabling is undesirable or impossible



PyroNet GSM

Remote sensor telemetry system

Temperature measurements sent to the Web via GSM
Access data from anywhere via the internet
Data logging, graphs and alarms

Choose this system if:

Ideal for periodic condition monitoring
Your measurement locations are far apart
You need access to data wherever you are



PyroPen

Pen-style handheld IR thermometer

-20°C to 500°C
Optional laser sighting and USB communications
Optional 100-point memory for data storage

Choose this thermometer if:

You need a pen-style, pocket-sized thermometer
You need the highest possible accuracy
You need to record measurements at multiple points



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



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



PPT245

DIN rail mounted indicating 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 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



ATR243

Multi-function indicating controller

Dual 4-digit displays, panel mounted
Relay, analogue, SSR outputs
RS485 Modbus communications

Choose this indicating controller if:

You need 3 relay outputs
You need a current transformer input for loop-break alarm
You need analogue retransmission of the process value



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
You need to record measurements at multiple points



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
Built-in temperature indicator

Choose this blackbody if:

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



32000 Series

Open frame linear power supply

Open frame, industry-standard case sizes
Single, dual and triple outputs
Output voltage from 5 to 200 V DC
Output current from 0.15 to 12 A



41000 Series

DIN rail mounted PSU for instrumentation

DIN rail mounting
Single output
Output voltage from 5 to 24 V DC
Output current from 100 to 500 mA
Ideal for powering instrumentation such as sensors



42000B Series

DIN rail mounted linear power supply

DIN rail mounting
Single output
Output voltage 24 V DC
Output current 3 or 4 A



52000 Series

Chassis mounted linear power supply

Chassis mounting
Single or dual output, fixed or adjustable voltage
Output voltage from 4 to 24 V DC
Output current from 0.25 to 1 A

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