OneTemp pty ltd
MEASURE | CONTROL | RECORD
www.onetemp.com.au
1300 768 887

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

Ideal for periodic condition monitoring

Choose this system if:

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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