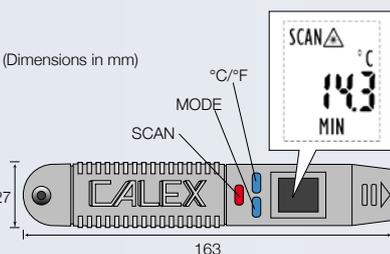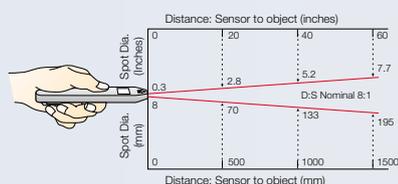# PyroPen
Handheld Infrared Thermometer

- Conveniently clips into your pocket just like a pen
- Unique ultra compact design
- Wide temperature range
- High accuracy and repeatability
- Fast response
- Displays maximum, minimum, average and current temperatures
- Narrow field of view
- Optional laser sighting
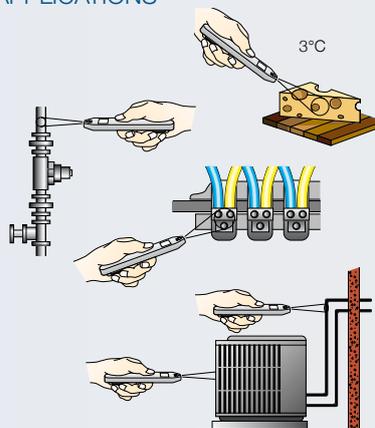- Optional USB data logging & data acquisition

GENERAL SPECIFICATIONS

Temperature Range	-20°C to +500°C
Accuracy	+/-1% of reading or +/-1°C whichever is greater
Repeatability	+/-0.5% of reading or +/-0.5°C whichever is greater
Response Time, t_{90}	500 ms (90% response)
Spectral Range	8 to 14µm
Ambient Temp Range	0°C to +50°C
Housing	Pen style
Display	3.5 digit LCD
Power	2 x AAA batteries
Reading	°C or °F SCAN/HOLD/LOCK/MAX/MIN/AVG
Display Resolution	0.1°
Field-of-view	8:1
Relative Humidity	10 to 95% non-condensing
Dimensions	163 mm x 27 mm x 16 mm

	PyroPen E	PyroPen L	PyroPen U
Emissivity	Fixed at 0.95	Adjustable 0.3 to 1.0	Adjustable 0.3 to 1.0
Sighting	None	Laser	Laser
Data Logging	None	None	100 memory locations
Data Acquisition	None	None	Via USB cable and CalexSoft software supplied
Weight	50g	60g	60g

TARGET SIGHTING AND SPOT SIZES

Distance: Sensor to object (inches)

Spot Dia. (inches)

0   20   40   60

0.3   2.8   5.2   7.7

D:S Nominal 8:1

8   70   133   195

Spot Dia. (mm)

0   500   1000   1500

Distance: Sensor to object (mm)

(Dimensions in mm)

°C/°F
MODE
SCAN

SCAN
°C
14.3
MIN

27

CALEX

163

APPLICATIONS

3°C

Designed to be simple, safe and convenient to use. The ultra compact PyroPen has been specifically designed to fit into your pocket, just like a pen, so that you can carry it with you anywhere you go.

You simply aim, press the SCAN button and read the temperature immediately. No fuss. No need to focus and no special training.

The non-contact nature of the measurement means that you can take the temperature of moving, rotating, inaccessible or hazardous objects. This makes the PyroPen particularly useful for test, inspection and maintenance applications in industries such as food & beverage, automotive, plastics & rubber, textiles, paper & packaging, chemicals & pharmaceuticals, HVAC, electrical, asphalting, plus many others.

The PyroPen L has all the features of the PyroPen E, plus laser sighting for small or distant targets and adjustable emmissivity.

The PyroPen U has all the features of the PyroPen L, plus a built-in memory for logging up to 100 temperatures and the ability to perform PC based data acquisition via USB. It is supplied complete with USB interface cable and CalexSoft software disk.

High performance, low cost. The Calex design team have taken advantage of the latest technology, not only to provide an ultra slim design but to incorporate reliability with high accuracy.

Advanced manufacturing techniques are used to ensure that the PyroPen meets the highest quality standards at low cost.

Each PyroPen comes with additional functions such as maximum, minimum and average temperature measurements. The PyroPen can be LOCKED into the ON position if continuous measurements are required. The last measured value can also be held for those situations where it is not easy to see the display whilst measuring.

CALEX
ELECTRONICS LIMITED