

PyroCouple

General Purpose Infrared Temperature Sensor with Analogue Output

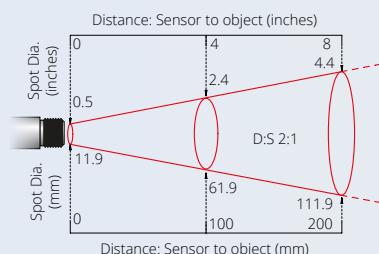


- Temperature ranges from -20°C to 500°C
- Durable, robust stainless steel 316 housing, sealed to IP65
- Quick and easy installation
- 2-wire 4-20 mA output or 4-wire voltage/thermocouple output
- Choice of precision optics for large or small targets
- Fast response with high stability
- Wide range of accessories
- Fixed emissivity 0.95 for measuring non-reflective non-metals, and painted surfaces (including painted or coated metals)
- Conforms to industrial EMC standards

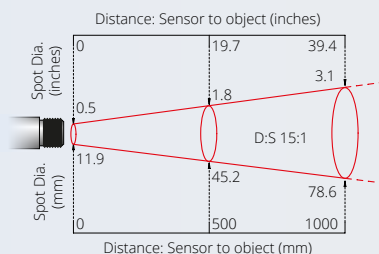
The PyroCouple is a simple, robust infrared temperature sensor with a choice of analogue outputs. No complicated setup is required - just connect a temperature indicator and power supply, and instantly start taking measurements.

It is suitable for non-contact temperature measurement on most non-reflective non-metal surfaces, such as paper, thick plastics, asphalt, painted surfaces, food, rubber and organic materials, among many others.

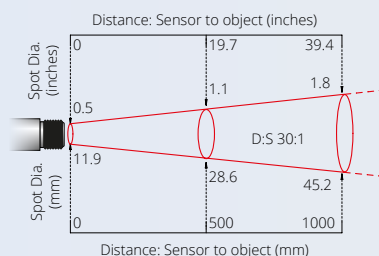
OPTICS



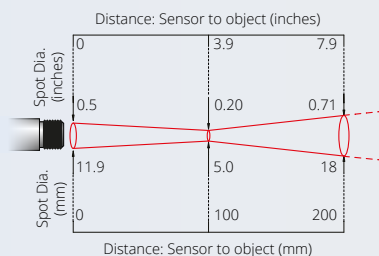
21 models



151 models



301 models



CF models

All models can measure at longer distances than shown, with a larger measured spot size.

Diagrams show the diameter of the measured target spot versus the distance from the sensing head (90% energy).

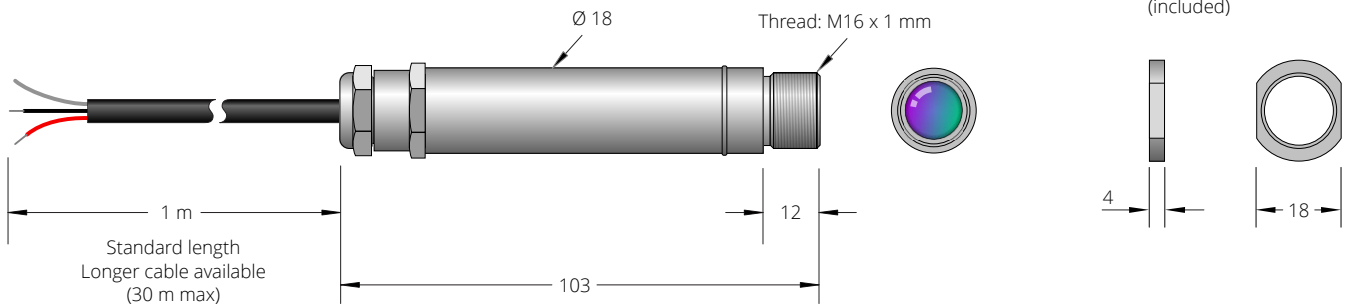
SPECIFICATIONS

General	
Output	Choice of 4-20 mA, J or K Thermocouple, mV (See "Model Numbers")
Temperature Range	LT = -20 to +100 °C MT = 0 to 250 °C HT = 0 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
Emissivity Setting	Fixed at 0.95
Response Time	240 ms (90% response)
Spectral Range	8 to 14 µm
Supply Voltage (at Sensor)	6 V DC to 28 V DC
Max. Loop Impedance	900 Ω (4-20 mA output)
Output Impedance	56 Ω (voltage/thermocouple output)
Max. Current Draw	20 mA

Mechanical	
Construction	Stainless Steel
Dimensions	18 mm diameter x 103 mm long
Thread Mounting	M16 x 1 mm pitch
Cable Length	1m (longer lengths available to order)
Weight with Cable	95 g

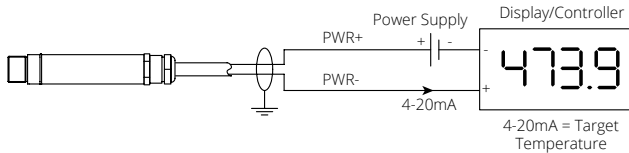
Environmental	
Environmental (IP) Rating	IP65
Ambient (Operating) Temperature Range	0°C to 70°C
Ambient (Operating) Humidity	95% max. non-condensing

DIMENSIONS (mm)

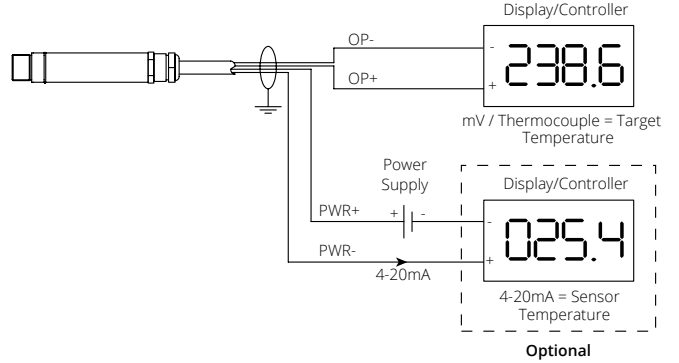


CONNECTIONS

Two-wire (option 0)



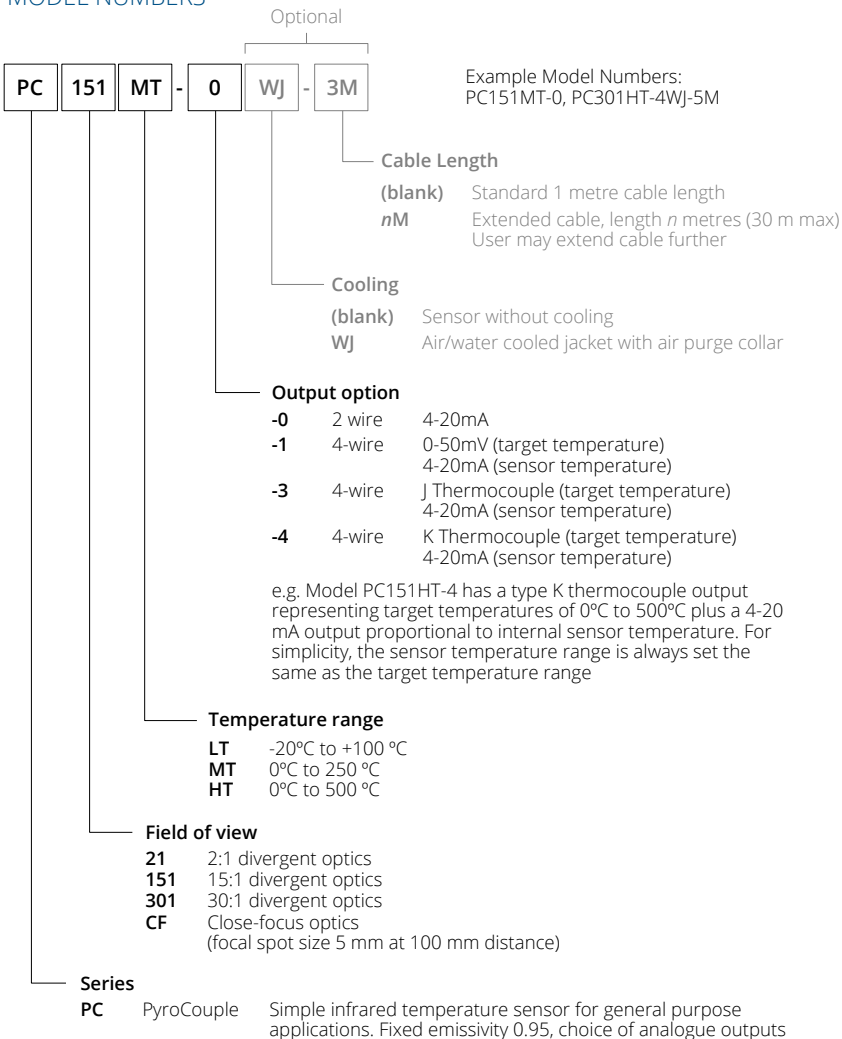
Four-wire (options 1 to 4)



Wire Colour Codes

See www.calex.co.uk/pyrocouple - "Installation" section

MODEL NUMBERS



ACCESSORIES



Laser sighting tool **LSTS**



Gooseneck mount **GNM**



Fixed mounting bracket **FBS**



Adjustable mounting bracket **ABS**



Air or water cooled jacket with air purge collar **WJ** (factory-fitted - see Model Numbers)



Air purge collar for 2:1 optics **APSW** or for all other optics (shown above) **APSN**