PyroCouple M **Two-Piece Non-Contact Temperature Sensor**



GENERAL SPECIFICATIONS

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Field of View	-20°C to 100°C	0°C to 250°C	0°C to 500°C
2:1	PCM21LT-X	PCM21MT-X	-
15:1	PCM151LT-X	PCM151MT-X	PCM151HT-X
30:1	PCM301LT-X	PCM301MT-X	PCM301HT-X
ø 5mm @ 100mm	PCMCFLT-X	PCMCFMT-X	PCMCFHT-X

Output Accuracy Repeatability Emissivity Response Time, t90 **Spectral Range** Power Max. Loop Impedance **Output Impedance**

MECHANICAL

Construction Dimensions **Thread Mounting** Cable Length Weight with Cable

ENVIRONMENTAL

Environmental Rating Ambient Temperature Range **Relative Humidity**

56 Ω (voltage/thermocouple output)

240 ms (90% response)

750 Ω (4-20 mA output)

24 V DC (13 V DC to 28 V DC max)

See table

Fixed at 0.95

8 to 14 µm

1 m

205 g

Sensing head Stainless Steel 18 mm dia. x 45 mm long M16 x 1 mm pitch

Electronics Module

±1% of reading or ±1°C whichever is greater

±0.5% of reading or ±0.5°C whichever is greater

Die-cast Aluminium

98mm x 64mm x 34mm

IP65 0°C to 70°C 95% max, non-condensing

DIAMETER OF TARGET SPOT MEASURED VERSUS DISTANCE FROM SENSING HEAD



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The PyroCouple M Series is a range of miniature infrared temperature sensors with separate electronics. PyroCouple M sensors are capable of measuring temperatures in the range -20°C to 500°C and are available with either a current, voltage or thermocouple output.

Output	Model-X	
4-20 mA	-0	
0-50 mV	-1	
T thermocouple	-2	
J thermocouple	-3	
K thermocouple	-4	
0-5V	-5	

The miniature sensing head measures just 18mm diameter x 45mm. It is made of stainless steel, sealed to IP65, and will operate in ambient temperatures up to +70°C without additional cooling. This makes the PyroCouple M Series ideal for applications where there is only a small amount of room available to mount the sensor or the ambient temperature around the sensing head is higher than normal.

The electronics module measures 98mm x 64mm x 34mm. It is made of die-cast aluminium, sealed to IP65, and will operate in ambient temperatures up to +70°C. It is powered from a 24 VDC (28 VDC max) power source.

The emissivity setting is fixed at 0.95, making the PyroCouple M Series suitable for the majority of applications where the target is made of a non-reflective material such as paper, plastic, rubber, cloth, food etc. or it can be used to measure metals that are painted, anodised or oxidised.

ACCESSORIES

- Fixed mounting bracket
- Adjustable mounting bracket
- Air purge collar
- Laser sighting tool

OPTIONS

- Other outputs available upon request
- Longer cable (3 m max.)
- Certificate of calibration

