

# Exhaust Pyrometers



## Features

- Single or dual display pyrometers for engine exhaust temperature monitoring
- 1 to 2% accuracy
- Sealed construction
- Full range of thermocouples, extension leads and adaptor fittings

Excessive exhaust temperature is a major damaging factor for all engines. High exhaust temperature is often the result of a poor fuel/air ratio, caused in turn by factors such as over-throttling, poor tuning, dirty air filters or a faulty fuel system. Exhaust pyrometers can be used to monitor the exhaust temperature and indicate a fault before major damage occurs.

Pyrometers are housed in a 3½ inch (89mm) diameter sealed case, designed for mounting on a bracket or panel front face. Single and dual scale versions are available: the dual version is designed for use with V-type engines, allowing easy comparison of left and right manifold temperatures.

All pyrometers feature an easy-to-read dial with scales in both Fahrenheit and Celsius. The dial face has white scaling and characters on a black background, a bright red dial pointer, and black or stainless steel bezel. No auxiliary power supply is required, except for dial illumination – please specify 12 or 24 VDC.

Exhaust temperature measurement is through a K type thermocouple mounted in the engine manifold or exhaust ports. On turbocharged engines, the thermocouple mounts between the engine and turbo. Both grounded and ungrounded thermocouples are available, with a range of screw fittings and extension cables.

## Specifications

### Pyrometers

**Input/calibration:** for type K thermocouple, 4 Ohms external resistance, ambient temperature compensated

**Indicating scale:** single or dual scale, 100° arc, 300 – 1300°F / 150 – 700°C, white scaling and characters, black background, red pointer

**Accuracy:** 2% at full scale, 1% at 2/3 scale

**Ambient operating temp:** –40 to +125°C / –40 to +257°F

**Dimensions:** diagram overleaf

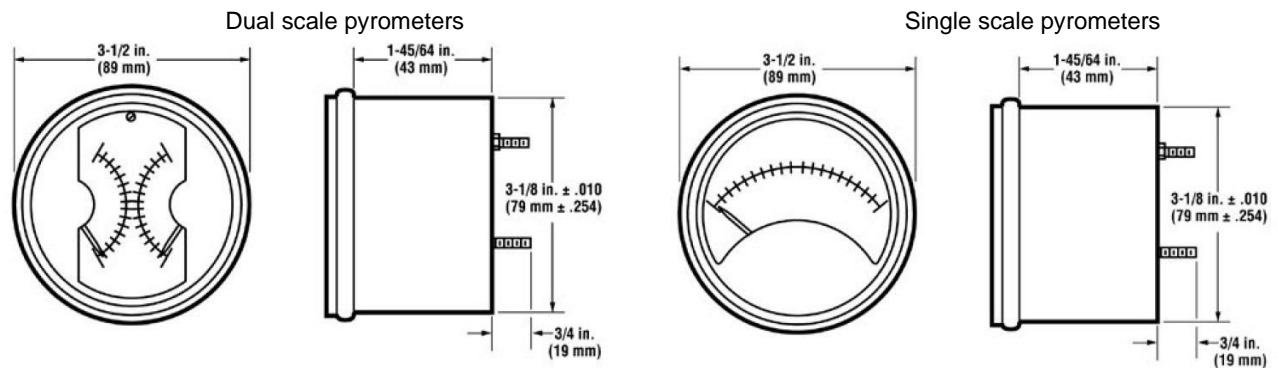
### Thermocouples

**Type:** K (Chromel/Alumel)

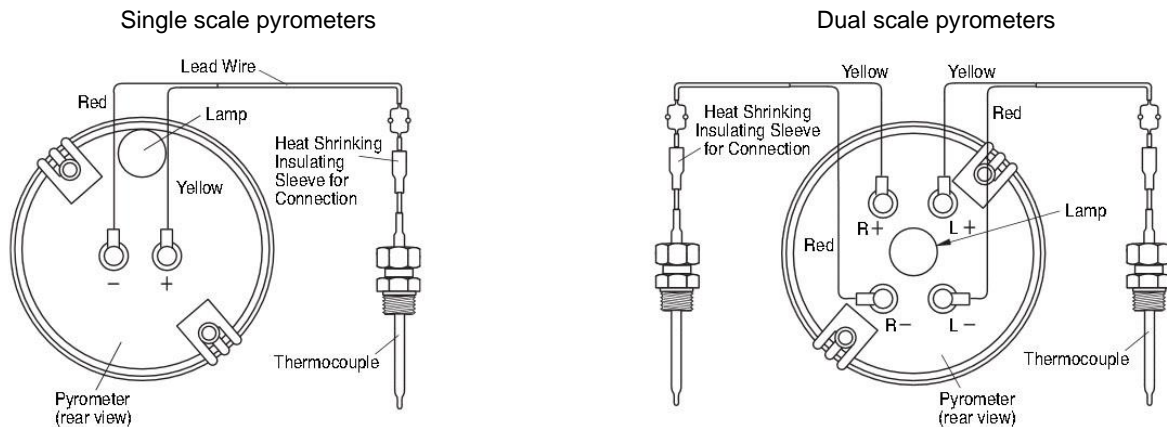
**Body construction:** Inconel, 0.25in. (6.4mm) diameter, fusion welded tip

**Wiring:** Q-glass high temperature, inner insulator, stainless steel overbraid, approx. 11in. (279mm) lead out, colour code: yellow (+ve), red (-ve)

## Dimensions



## Electrical Connection



## How to Order

When ordering, please specify the stock codes below:

### Pyrometers

stock number	type	indicating range	bezel	lighting
00.00.0956-12	single dial	300-1300°F/150-700°C	stainless steel	12V
00.00.0956-24	single dial	300-1300°F/150-700°C	stainless steel	24V
010-413-12	single dial	300-1300°F/150-700°C	black	12V
010-413-24	single dial	300-1300°F/150-700°C	black	24V
00.00.0819-12	dual dial	300-1300°F/150-700°C	stainless steel	12V
00.00.0819-24	dual dial	300-1300°F/150-700°C	stainless steel	24V
010-508-12	dual dial	300-1300°F/150-700°C	black	12V
010-508-24	dual dial	300-1300°F/150-700°C	black	24V

### Thermocouples, fittings and lead extensions

stock number	type
00.00.0818	grounded, K type, complete with 3/8" NPT adaptor
00.00.3488	ungrounded, K type, complete with 1/4" NPT adaptor
00.00.3577	1/8" NPT thermocouple adaptor
00.00.3450	1/4" NPT thermocouple adaptor
00.00.3578	3/8" NPT thermocouple adaptor
00.00.3579	1/2" NPT thermocouple adaptor
00.00.0817	standard lead assembly, 14 feet
00.00.0817-10	lead assembly, 10 metres
00.00.0817-15	lead assembly, 15 metres
00.00.0817-20	lead assembly, 20 metres
00.00.0817-25	lead assembly, 25 metres