



Stewart Warner HEAVY-DUTY PYROMETERS

Rugged Products for O.E.M. and Aftermarket Customers Alike

PYROMETERS

DESCRIPTION:

Full line of 2" & 3" pyrometers for heavy-duty on & off-highway, specialty vehicle & marine applications using type "K" thermocouples ■ "Ruggedized" design for superior performance in harsh environments ■ Superior flux distribution & exceptionally strong magnet system generates more torque for faster response & accurate readings ■ Corrosion-resistant zinc-plated case ■ Light kits included on 2" & 3" units, 3" units feature sealed light enclosure ■ No external power required to drive gauge

SPECIFICATIONS:

Sizes:	2.05" diameter (nominal) +/- 0.01", panel opening is 2.098 +/- 0.02"; 3.00" diameter (nominal) +/- 0.01", panel opening is 3.05" +/- 0.02"
Temperature ranges:	1500 F & 1800 F
Dials:	Metal, black; compatible with perimeter lighting scheme
Graphics/symbols:	White-on-black, dual scale or color coded (3-colors: green, yellow & red)
Pointer:	Pyramidal shaped pointer, bright red, metal; black hub; RTZ feature with ceramic pointer stop
Bezel:	Black, treated metal or chrome-plated, step; or custom step
Lens:	Glass
Case:	Corrosion-resistant, zinc-plated steel, standard
Movement:	D'Arsonval type; hardened pivot & spring-loaded sapphire jewel configuration; 100 & 250 sweep; shielded; extra-strong, plated magnet for maximum torque & superior response; anodized DC type moving coil forms for long-life; electrically dampened to control overshoot & pointer flutter.
Lighting:	Perimeter lighting/Incandescent 12-volt, 5/8" light kit included; plastic cap in holes; 3" unit contains sealed enclosure for light
Supply Voltage:	12- volt (light only)
Electrical connections:	#10-32 studs, male
Hardware:	2-terminal hex nuts, 2-flat washers, 2-split lock washers, 2-mounting hex nuts & zinc-plated bracket
Sealing:	Splash and dust resistant
Accuracy:	+/- 2% of full-scale
Operating temperature:	-30 F to +150 F



APPLICATION:

User is responsible for suitability of application. Units require type "K" thermocouples. Thermocouple should be installed before turbocharger to accurately reflect engine exhaust temperature. Maxima assumes no liability for product in cases where user chooses not to respond to a potentially hazardous conditions.



Stewart Warner PYROMETERS

PYROMETERS

WHAT DOES A PYROMETER DO?

- Pyrometers measure exhaust temperature to verify maximum allowable operating temperature & protect the vehicle's engine from over-heating & potential damage.
- As a rule, heavy-duty applications—truck & bus, off-highway, marine—generate high-heat. Pyrometers monitor temperature rise in critical high operating temperature environments.
- Operator response time impacts throttle settings & lag causes wasteful over-correction. An incorrect setting may cause an over-temperature condition. Pyrometers help operators maintain optimal settings.
- Pyrometers may indicate harmful over-fueling conditions as well. Over-fueling contributes to carbon build-up, lube oil dilution & higher operating temperatures.
- Pyrometers help optimize trim settings in boats in order to synchronize motors.
- Pyrometers help monitor applications with a so-called "dead load" that generate high temperature (e.g. tractors). Exhaust temperature is in direct relation to load.

WHY USE A SW PYROMETER?

- Stewart Warner pyrometers feature an especially rugged, shielded, long-life movement that assures fast, linear, & accurate responses to changes in exhaust temperature.
- Units work with grounded OR ungrounded thermocouples. Grounded thermocouples are desirable because they have better response time, thus translating into a real-time reading on the pyrometer.
- Units are form-fit-function compatible with competitors' models in the market (thus providing easy drop-in replacement).
- No external power required to drive gauge (except for illumination)
- Units feature popular operating temperature ranges—1500 & 1800 F.
- Units are electrically dampened to minimize pointer overshoot & flutter.
- SW pyrometers are packaged in a corrosion-resistant, zinc-plated steel case.
- SW D'Arsonval type pyrometers are made in the U.S.A.

P/N	BEZEL TYPE	BEZEL FINISH	SIZE (DIA.)	POINTER SWEEP	SCALE
111410	STEP	BLACK	2"	100	1500 F/800 C
111411	STEP	BLACK	3"	100	1800 F/3-color
111412	CUSTOM	BLACK	2"	250	1500 F
111413	STEP	BLACK	3"	250	1800 F/1000 C
111414	CUSTOM	CHROME	2"	100	1500 F/800 C
111415	CUSTOM	CHROME	3"	100	1800 F/3-color
111416	CUSTOM	CHROME	2"	250	1500 F
111417	CUSTOM	CHROME	3"	250	1800 F/1000 C

Use thermocouple P/N 100348 with lead wire assembly P/Ns 111673 (7') and 111674 (14')

Point of Purchase Displays are Available



111410



111411



111412



111413



111414



111415



111416



111417

DISTRIBUTED BY:



1811 Rohrerstown Rd. Lancaster, PA 17601
(717) 581-1000 FAX: 800-669-1837
www.stewartwarner.com