

STM-110

Dual Input

Temperature Monitor/Alarm

The STM-110™ displays the temperature of one or two points sensed by thermocouples and provides a single overtemperature setpoint. Helps protect engines from costly failure.

2-Year Warranty

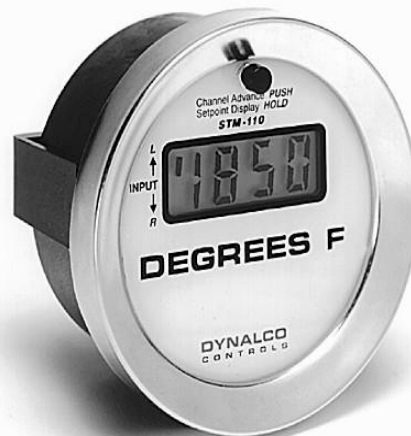
FEATURES

- Provides a solid-state contact closure when the temperature of either setpoint exceeds an easily adjustable, single preset level.
- Monitors left bank and right bank exhaust temperatures.
- Designed to protect V-type engines in the 100 to 1000 horsepower range.
- SAE case fits 3-3/8" panel openings.
- Rugged and sealed: all solid-state, including the alarm contact closure.
- Easily adjustable setpoint. Over-temperature setting is displayed when pressing front-mounted push-button. Setpoint control located in back.
- Display contrast ratio increases with ambient light; ideal for outdoor installations,

SPECIFICATIONS

Display: 3½ digits, liquid crystal display, 0.5" high, 1° increments. Brightness increases with ambient light.

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Environment Temperature: -5°F to +175°F (-20°C to +80°C). **Storage:** -40°F to +195°F (-40°C to +90°C). Less than 3°F (2°C) change in display reading with a 50°F (28°C) change in ambient temperature. Accuracy and stability of overtemperature trip point: 6°F (3°C).

Sensors: Ungrounded thermocouples. Integral cold junction compensation. Burned out thermocouple indicated by a number 1 in the thousands column with all other digits blanked. Effect of thermocouple extension wire resistance: approximately 1°F (0.05°C) per 20 feet of 20 gauge thermocouple extension wire.

Overtemperature Trip: Normally open solid-state contacts at terminals B (+) and A (-) close and latch when either thermocouple signal exceeds the common overtemperature setpoint. Power to the alarm device must be interrupted momentarily to reset. **Switch rating:** 400 volts, 0.15 amperes, maximum.

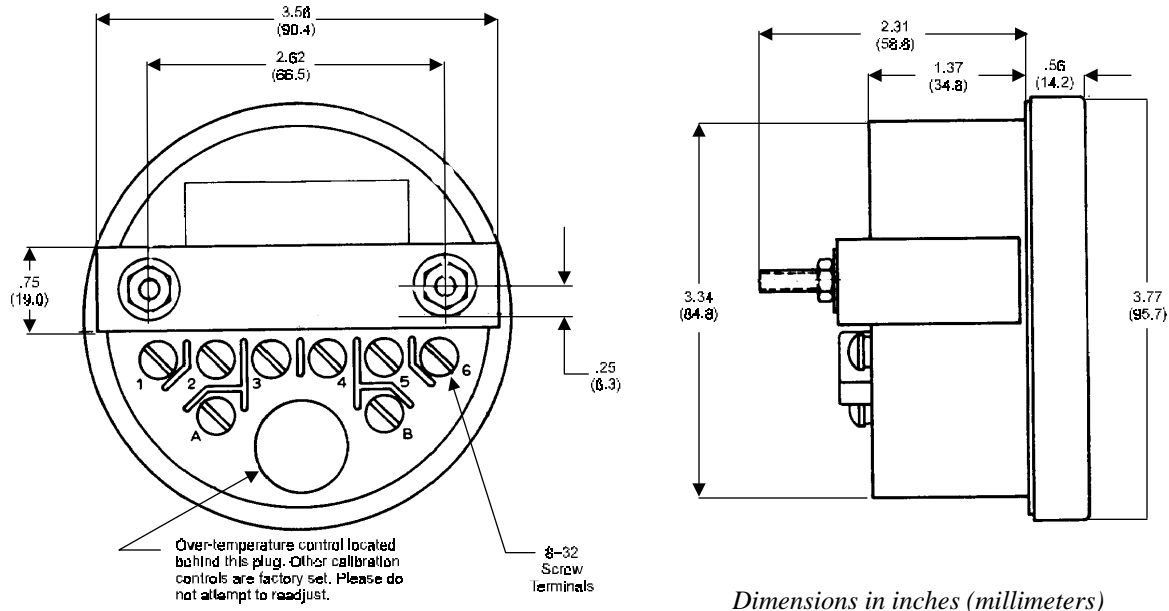
Power Requirements: 12 to 40 Vdc at terminals 6 (+) and 5 (-) and/or magnetic pickup at terminals 3 and 4.

Typical current consumption of 1 mA at 12 Vdc; 3 mA at 24 Vdc; 5 mA at 32 Vdc.

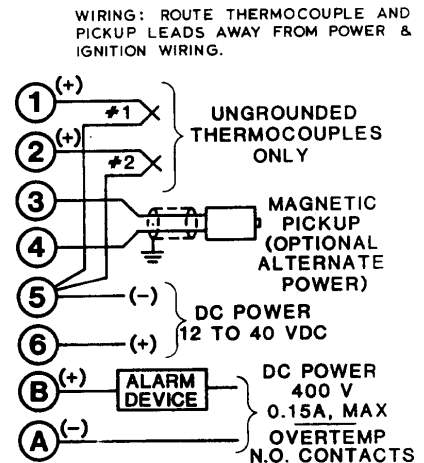
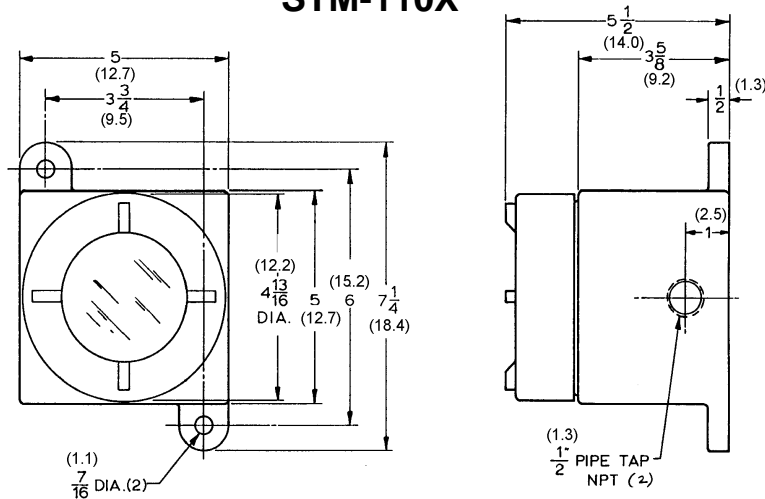
Typical 3 Vac rms required from the pickup, 2 mAac.

Weight: STM-110: 1 lb (.45 kgs) maximum. STM-110X (in Class I, Group D; Class II, Groups E, F, & G enclosure): 6 lbs (2.7 kgs) maximum.

OUTLINE AND CONNECTION DRAWING



STM-110X



THERMOCOUPLE TYPE AND RANGE		
P/N	Sensor	Range
-11	J (Iron-Constantan)	-50°F to +1400° F
-12	J (Iron-Constantan)	-45°C to +760°C
-13	K (Chromel-Alumel)	-50°F to +1800°F
-14	K (Chromel-Alumel)	-45°C to +980°C
-19	Platinum RTD	-300°F to +800°F
-20	Platinum RTD	-185°C to +425°C

HOW TO ORDER

Specify complete part number. For example: STM-110 - 11 - X
(A) (B) (C)

(A) Dynalco basic number

(B) Sensor type and range; see table

(C) Hazardous enclosure; omit for standard

CRANE

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