

SPECIFICATION FOR MODEL 908 AND 908A
Dual Temperature Module

GENERAL OVERVIEW

The 908 Dual Temperature Module comes factory preset. The alarm points are marked as terminals 2 and 8 on the unit.

When the trip point has been reached, a relay internal to the module becomes energized (failsafe); The relay is a SPST (10 Amp Max.) with all contacts brought out to the user.

FEATURES & OPERATION

The Dual Temperature Module (908) is designed to operate from a 24V DC power supply, but will accommodate supply voltage as low as 15V and as high as 28V.

The installed temperature sensors output is compared inside the Module (908) electronics to a trip point, factory preset from +50°F to +300°F.

There is one pre-alarm temperature trip point per-channel. If the temperature falls below the trip point setting, the channel indicator (LED) will be off, and the internal relay will energize, closing relay contact terminals 4 and 6 (with terminal 5 open).

When the temperature increases within approx. 2°F of the trip point, the appropriate channel indicator starts to flash. Flashing continues until the temperature falls back below the pre-alarm reset point (indicator off). If the temperature continues to increase to the trip point, the channel indicator (LED) turns on steady (indicating a trip) and the relay is de-energized, closing contacts 4 and 5 (with terminal 6 open).

Enclosure is Extruded Aluminum with Mounting Flanges with 0.060 Aluminum Covers.

There is no connection from the case to the PC Board (Isolated).

TERMINAL PINOUT & GENERAL SPECIFICATIONS

- Terminal 1: Power 15 VDC Min., 28 VDC Max., 24V Nominal, at 100mA.
- Terminal 2: Temp Sensor "1", signal input, sources approx. 4.2mA into variable resistance temp sensor to develop a voltage across it, that is amplified by the module.
- Terminal 3: Channel "1" Output, will sink 500mA at 50VDC. Intended to drive an indicator.
- Terminal 4: Relay Arm. The contacts are rated at 10 Amps.
- Terminal 5: Relay N.C. (Normal Closed) when unit is not energized.
- Terminal 6: Relay N.O. (Normal Open). Closed when in operating temperature range.
- Terminal 7: Channel "2" Output, will sink 500mA at 50VDC. Intended to drive an indicator.
- Terminal 8: Temp Sensor "2", signal input, sources approx. 4.2mA into variable resistance temp sensor to develop a voltage across it, that is amplified by the module.
- Terminal 9: Power Return (Ground), Sensor common

INSTALLATION

1. CAUTION-Unit is not weatherproof, and MUST be mounted in a protected area, not in the engine compartment.
2. Install remote indicators in an area where the operator can see them.
3. Install temperature sensors so as much of the tip of the sensor as possible is in contact with the flow being monitored.
4. Connect Power, Sensor and Indicator Wiring per the diagram.
5. Connect Alarm or devices needing control between pins:
 - 4 and 5 (circuit will Close during alarm condition).
 - 4 and 6 (circuit will Open during alarm condition).

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FOR INSTALLATION WITH ENGINE SAVER

Refer to the Engine Saver Manual

Circuit will make during or upon alarm condition:

(Parallel Connection)

1. Connect the brown wire on Pin "A" Engine Saver harness to Terminal 4 of the 908.
2. Connect the green wire on Pin "B" Engine Saver harness to Terminal 5 of the 908.

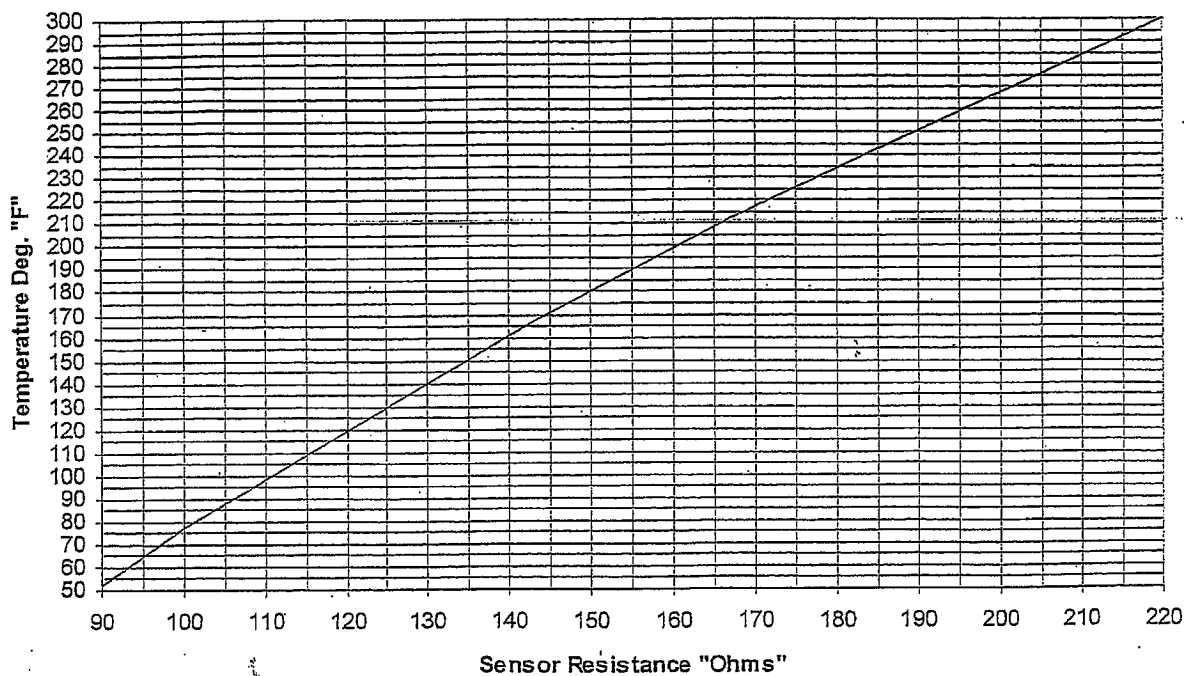
Circuit will break on alarm:

(Series Connection)

1. Connect the blue wire on Pin "C" Engine Saver harness to Terminal 4 of the 908.
2. Connect the brown wire on Pin "A" Engine Saver harness to Terminal 6 of the 908.

Operational Note: Alarm device connected to the Engine Saver (K1A) will now react to either a fault from the Engine Saver or a fault from the 908. The alarm device connected to the 908 will react to a fault detected by the Engine Saver only.

Temperature Sensor P/N 57-5500(65-55)
Resistance vs. Temperature



ACCESSORIES

Temperature Sensor, P/N 57-5500-55 (3/8 Inch WPC)
P/N 57-5500-65 (1/2 Inch WPC)