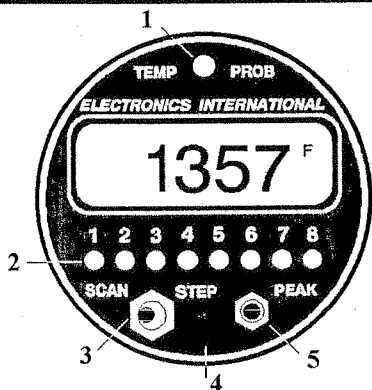


Smart Engine Analyzer (SR-8A) Quick Reference Guide

1023962

1. Temp Problem Warning LED.
2. Channel Indicator LED's.
3. Mode Selector Switch.
4. Scan Rate Adjustment Pot.
5. Peak Locate Button.



SR-8A Configuration: Use the following chart as a record of how your SR-8A is configured for your aircraft. List the functions (EGT, CHT, Oil Temp, OAT, etc.) on each channel for the Left and Right Display.

Digital Display

----- Channel -----							
1	2	3	4	5	6	7	8
----- Function -----							

To Display the Various Channels: To select a channel push the Mode Selector Switch (3) to the right. This is the Manual Operating Mode. The appropriate green Channel Indicator LED will be lit indicating which Channel is being displayed. The Digital Display will show the temperature reading on the indicated channel. The SR-8A can be programmed from the back panel to step through 6 or 8 channels.

Scan Operating Mode: Push the Mode Selector Switch (3) to the left for the Scan Mode. In the Scan Mode, the SR-8A will scan through the channels, automatically analyzing your engine. You do not need to read any temperatures or interpret the display. The SR-8A's 1650°F High EGT Limit, 1100°F Low EGT Limit, 500°F High CHT Limit and Differential Limit (95°F or 195°F, set up from the back panel) stand watch over your engine. In the Scan Mode, an arrow high in the left hand corner of the display will appear any time the hottest cylinder is being displayed.

Temp Problem Warning LED: If the displayed temperature violates any of the mentioned limits while in the Scan Mode, the Temp Problem Warning LED over the display will be lit and the scan will stop on the channel with the problem. If the High Limit has been violated, an arrow high in the left hand corner of the display will appear. If the Low Limit has been violated, no designator will appear. If the Differential Limit has been violated, a "DC" high in the left hand corner of the display will appear.

Peak Locate Button: The Peak Locate Button (5) may be used in the Manual or Scan Mode of operation. Its purpose is to eliminate all of the time and mental calculations to find the hottest cylinder.

Leaning with the SR-8A: Set the SR-8A into the Manual Operating Mode and push the Peak Locate Button (5). Rough lean your engine by adjusting the mixture control from full rich to a leaner mixture near peak EGT as determined by experience. Wait 20 seconds for the temperature to stabilize. Again push the Peak Locate Button (5). The SR-8A may stop on a different cylinder than the one you started with. Begin precision leaning your engine slowly until the EGT peaks. Set your mixture for a specific EGT rich of peak (consult your P.O.H. for recommended setting).

Setting the Scan Rate: The Scan Rate (time in seconds the SR-8A stays on a channel when scanning) may be adjusted from 2 to 10 seconds. Using a small, flat tip screw-driver, rotate the Scan Rate Adjustment Pot (4) clockwise to increase the time the SR-8A displays each channel.

Instrument Set Up: There are four small switches on the back of the SR-8A used to program this unit for your aircraft. Set the switches below using a ball point pen. These switches should be set up prior to installation of the SR-8A.

