

INSTRUCTIONS

CAT. # 3DA1 DUAL INSTRUMENT

CYLINDER HEAD TEMP. / EXHAUST GAS TEMP.
RANGE 100-800 F. / 700-1700 F.
USE WITH 4 FOOT TYPE J and TYPE K
THERMOCOUPLE SENDERS.

! IMPORTANT !

This system is factory calibrated at 75 deg. F. The indicator measures the temperature difference between the hot end (PROBE) and the pin terminals on the other end of the thermocouple. (COLD JUNCTION).

For COLD JUNCTION temperature of 75 deg. The indicator will read the true temperature of the PROBE end of the thermocouple.

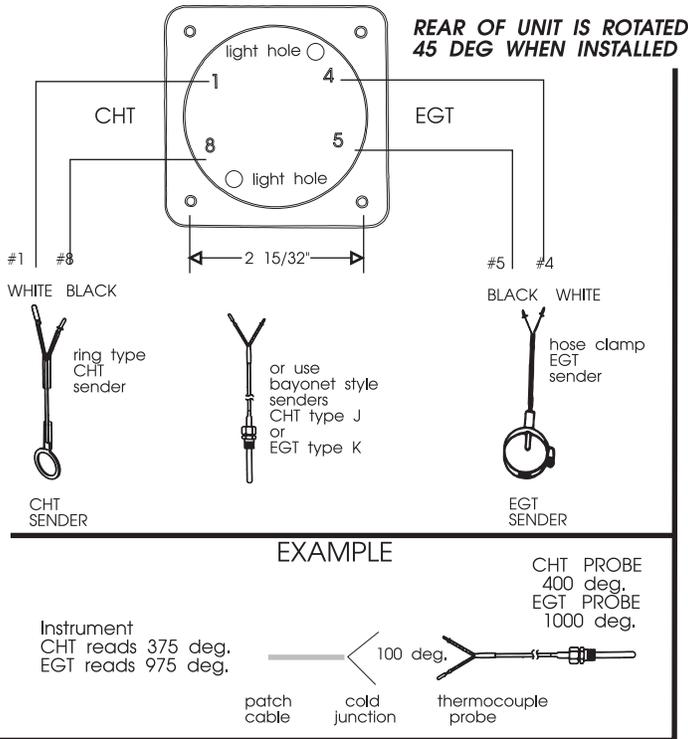
For COLD JUNCTION temperatures HIGHER than 75 deg. The indicator will read one deg. LOW for each deg. above 75 deg.

For COLD JUNCTION temperatures LOWER than 75 deg. The indicator will read one deg. HIGH for each deg. below 75 deg.

This thermocouple "error" is a normal characteristic of self powered thermocouple systems. If possible, locate the thermocouple COLD JUNCTION connection to patch cable away from heat (or extreme cold) to minimize thermal "error".

When the COLD JUNCTION is 100 deg. and the system is calibrated at 75 deg., that means the COLD JUNCTION is 25 deg. high and the indicator will read 25 deg. low. See example in illustration.

This unit has not been approved for type certified aircraft.



For lighting, order 2 light kit # 186

For multi cylinder monitoring, order dual 2,4,6 or 8 position switch.

To prevent damage to instrument, do not connect to any other power source.

Mount instrument in a 3-1/8 inch hole for behind panel or (2-7/8 inch hole for front of panel) in a convenient operating place at least 12 inches from compass. Use four corner screws to hold in place.

Install the CHT thermocouple under the spark plug (the gasket is usually removed). For EGT hose clamp style thermocouple, drill 3/16 inch hole in exhaust pipe approximately 6 inches from manifold of the leanest cylinder as defined by the engine manufacturer and insert probe tip into hole then tighten hose clamp. Or in the bayonet port if supplied on manifold. Route thermocouple leads away from spark plug wires and hot manifolds. Support with wire ties every 12-15 inches. Use rubber grommets when going through metal.

On the rear of the instrument there are connecting pins with corresponding numbers.

Use patch cable provided to connect the CHT thermocouple to the instrument. Connect pin #1 to the white thermocouple lead and connect pin #8 to the black thermocouple lead. Connect the EGT thermocouple to the instrument by connecting pin #4 to the white thermocouple lead and connect pin #5 to the black thermocouple lead. Slide protective tubing over connections to prevent shorting. See illustration.

Patch cable may be shortened or lengthened up to 20 feet without affecting accuracy of unit. Using 20-22 gauge stranded wire is recommended. Do not shorten the thermocouple leads.

If no reading, reverse connections.

WARRANTY

WESTACH INSTRUMENTS are made with the highest quality material and workmanship. With reasonable care, instruments will give long and satisfactory service. WESTACH INSTRUMENTS are guaranteed against defective material and workmanship for 12 months from the manufacturing date. For complete details go to www.westach.com

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