

# INSTRUCTIONS

## CAT. #3AQ1

CHT / CHT / CHT / CHT  
100-700 f. / 100-700 f. / 100-700 f. / 100-700F.  
USE 4 FOOT TYPE J 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.

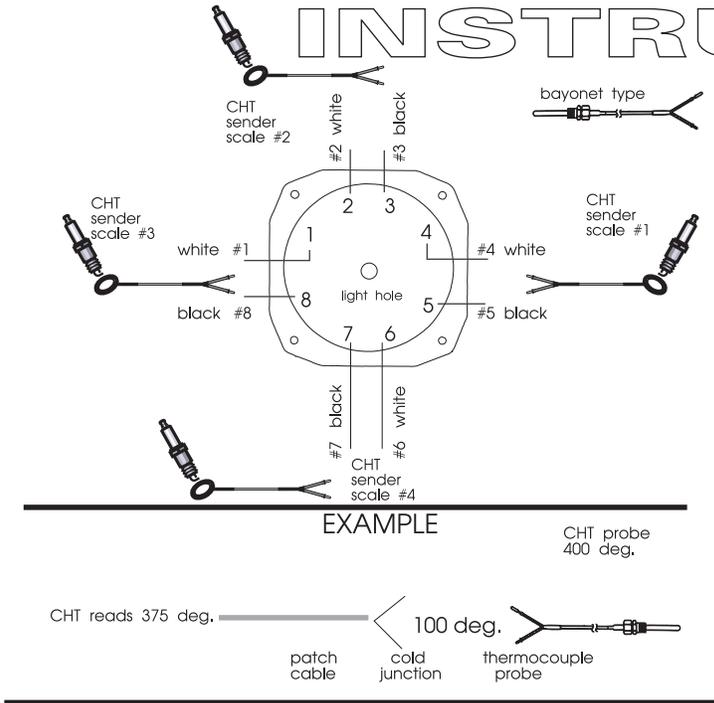
For COLD JUNCTION temperatures HIGHER than 75 deg. The indicator will read one deg. LOW for each deg. above 75 deg.

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 light kit # 186-12A2L.

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

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

Install ring type senders under the spark plugs, Or mount the bayonet style thermocouples in the bayonet ports, if supplied on engine. Route wires away from spark plug wires and hot manifolds and 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 instrument to the appropriate senders.

For CHT scale #1, connect pin #4 to the white thermocouple lead and connect pin #5 to the black thermocouple lead. For CHT scale #2, connect pin #2 to the white thermocouple lead and connect pin #3 to the black thermocouple lead. For CHT scale #3, connect pin #1 to the white thermocouple lead and connect pin #8 to the black thermocouple lead. For CHT scale #4, connect pin #6 to the white thermocouple lead and connect pin #7 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 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](http://www.westach.com)



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