

# SIGTRONICS' EGT 101

**...The Digital EGT with a Difference!**

***Now you can upgrade to DIGITAL without replacing your probe. Just pull out the old analog and slip in the New EGT 101; connect to power and enjoy Digital Accuracy, Convenience and Reliability!!***



■ **UNIQUE** built-in isolation power supply allows you to use the EGT 101 to replace any EGT which uses the conventional alumel/chromel (K Type) probe, regardless of the probe "grounding" configuration. The K Type probe, identified by its red (-) and yellow (+) lead terminations, has been the standard probe for many years.

■ **LARGE LCD DISPLAY** is easy to view in the sunlight. Back lighting is provided for night flying. The lighting circuit can also be connected to the aircraft panel light dimmer circuit.

■ **1°F RESOLUTION** allows precise fuel leaning for maximum economy and engine protection. Typical analog gauges offer only 25° of resolution. Parallax error, resulting from variance in viewing angle, further degrades the readability of the analog gauge.

■ **ADVANCED DESIGN** totally eliminates the need for costly field calibration during installation. The EGT 101 is designed to read thermocouple voltage directly, therefore the accuracy is not affected by thermocouple wire length or gauge.

#### **SPECIFICATIONS:**

- Single channel, however a switch may be installed for multi-channel applications.
- Probe input: Single alumel/chromel (K Type) probe. Polarity marked mounting studs on rear of case.
- Accuracy:  $\pm 0.5\%$  at 1500° F
- Weight: 4.2 ounces
- Dimensions: 2.5" x 2.5" x 3.5" deep
- Voltage Requirement: 10-34VDC Operates on 12V or 24V systems
- Current Drain: 0.015 amps, exclusive of lighting system.
- Warranty: One year parts and labor

*Serving You Since 1974*

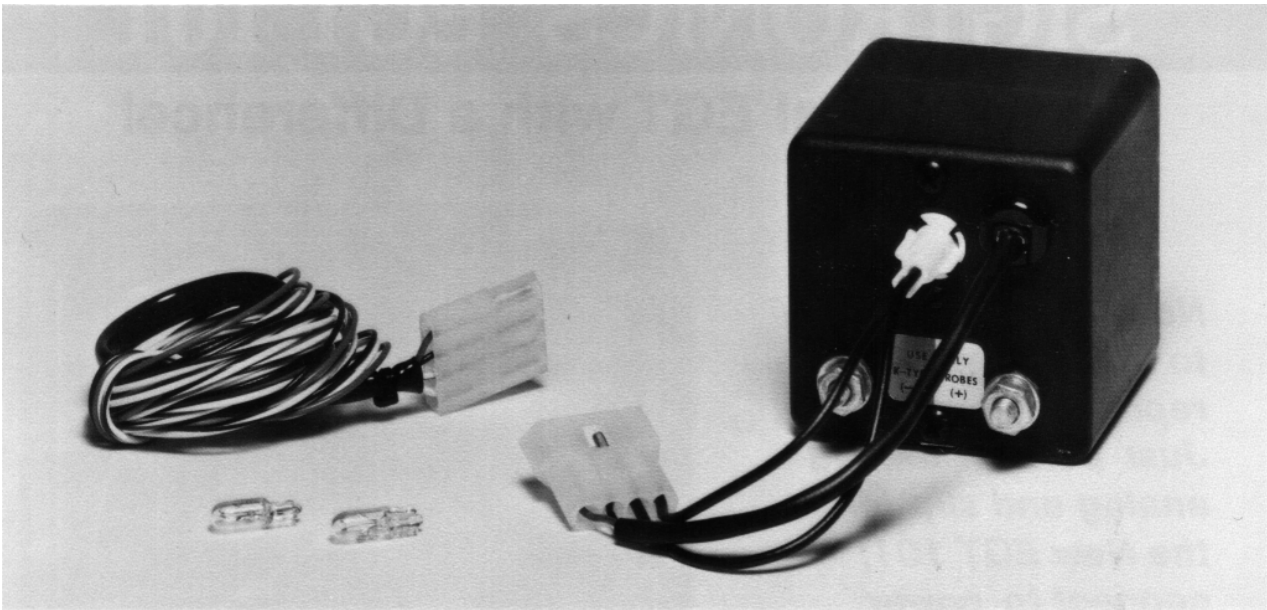


Made in U.S.A.

**Specialists in "SOUND" Management**

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# SIGTRONICS' EGT 101 INSTALLATION INSTRUCTIONS



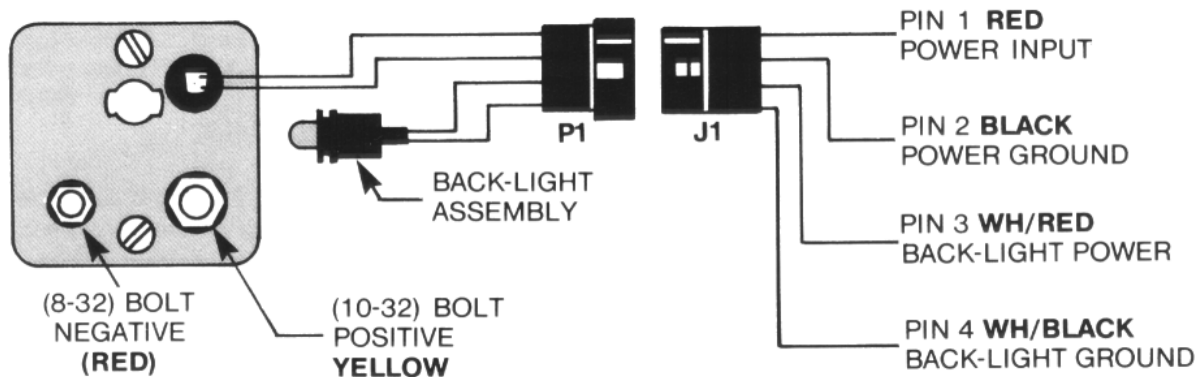
The Sigtronics' EGT 101 Digital Exhaust Gas Temperature meter is designed for mounting in the conventional 2.25" instrument panel cutout. Parts Supplied: 4 ea. mounting screws, power supply cable, back-lighting kit.

**BACK LIGHTING KIT** - Prior to mounting the EGT, determine the aircraft's electrical system voltage. Then select the proper voltage lamp from the backlighting kit. The kit consists of a lamp socket and two wedge base incandescent lamps.

For 12V electrical systems, install the #73 lamp into the lamp socket. A 24V system requires the #85 lamp. (The lamp identification numbers appear on the bulb's glass envelope).

Install the lamp/socket assembly into the hole on the rear of the instrument case by inserting and rotating 1/8 turn clockwise.

## ELECTRICAL CONNECTIONS



PIN NO.	COLOR	FUNCTION	CONNECT TO
1	RED	EGT Power Input 12V or 24V	Power through 1 amp inline fuse or appropriate circuit breaker.
2	BLACK	EGT Power Ground	Aircraft Chassis Ground
3	WH/RED	EGT Back-Light Power	Avionics Panel Lighting Dimmer Control
4	WH/BLACK	EGT Back-Light Ground	Aircraft Chassis Ground

## THERMOCOUPLE (Probe) CONNECTIONS

Two threaded studs protrude from the rear of the instrument case to accommodate connections of the K type thermocouple (chromel/alumel) probe to the EGT. First, remove the outermost nuts from the smaller of the

two studs (8-32) and install the negative (Red) thermocouple lead. Likewise, install the positive (Yellow) thermocouple lead to the larger (10-32) stud on the EGT. Hand tighten both terminal securing nuts. **DO NOT OVERTIGHTEN!**