



Aircraft And Medical Instruments

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INSTALLATION INSTRUCTIONS

T[]EU[] [] [] [] (G/D/S)* PRESSURE SENDER

Meets: TSO C47 Specifications.

Installation Limitations:

The T[]EU[] [] [] [] [] is an electronic pressure transducer/sender which is a part of an indirect reading aircraft pressure measurement system. The entire system consists of an indicating device connecting to the sender which provides operating power to the sender and circuitry to convert the sender signal output to a visual reading. The indicating device must meet applicable TSO standards in order for the entire system to be considered meeting TSO standards.

The pressure sender unit must be connected to an indicating instrument which supplies power to the sender, not directly to the aircraft buss. The power from the indicating instrument shall be conditioned and regulated so as to preclude voltage spikes and other anomalies normally found on unregulated power sources.

This unit is suitable for mounting in the engine compartment of a fixed wing, reciprocating, turbine or turbo shaft engine, aircraft. The ambient temperature maximum of the installation area shall be no greater than 120°C.

This unit does not require periodic maintenance or calibration for continued airworthiness.

This unit was not tested with the following fluids. All insecticides, sullage, 1, 1, 1, Tricloroethane, Skydrol, type AEA de-icing fluids.

Operation: To insure proper operation, the T[]EU[] [] [] [] [] must be connected to an indicating unit that is calibrated for the correct operations range. Consult the operation/installation manual of the indicating unit to be sure that unit is calibrated to work properly with this unit. Failure to do so may give erroneous indications which may result in aircraft system malfunctions.

Installation Instructions:

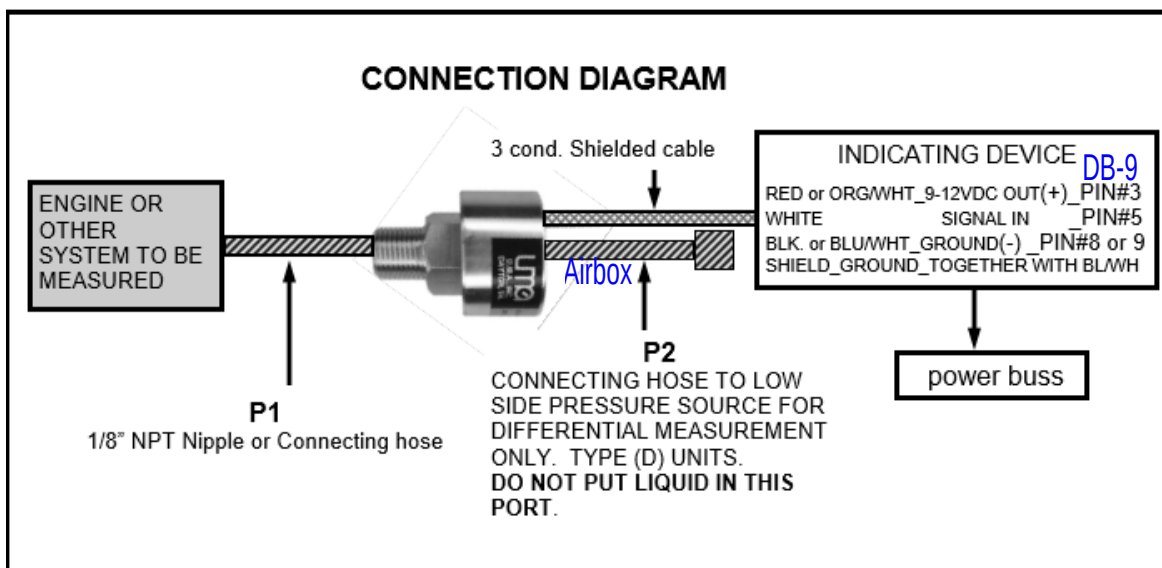
- 1.) Mount unit to engine with 1/8"-27 NPT nipple and run a connecting hose to unit.
- 2.) Use thread sealer and tighten ¾-1 ¼ turns past finger tight.
- 3.) The unit is rated to 120°C so care should be taken to keep unit away from high heat sources.

Wiring:

- 1.) Use #24 or #22 shielded wire. Use teflon insulated type if routed in areas over 100°C.
- 2.) ORNG-WHT - - 9-12VDC from indicating unit, regulated.
- 3.) BLUE-WHT - - Ground.
- 4.) WHITE - - Signal to indicating unit.
- 5.) Shield - - Connect to ground at indicating unit.

Note: Type **G** units are **Gauge** reading.
Type **D** units are **Differential**.
Type **S** units are **Suction**.





Specifications:

Supply Voltage:	9-12VDC Regulated.
Output:	0.2-4.75 (Calibration specific to model)
Current draw:	20 MA.
Operating Temp.:	-40° to 120°C.
Accuracy:	±2.5% Full Scale.
Pressure Fitting:	1/8" NPT female. (1/8-27NPT)
Mounting threads:	5/8" X 18
Pressure level:	P1 greater than P2
Media Compatibility:	P1 liquid or dry. P2 dry only.
Liquid Types:	Oil, avgas, jet fuel, water and others that are not corrosive to aluminum.

Models:

UMA Part#	Range	Max Pressure
T[]EU07[]	7 PSI	29 PSI
T[]EU35[]	35 PSI	145 PSI
T[]EU70[]	70 PSI	290 PSI
T[]EU100[]	100 PSI	406 PSI
T[]EU150[]	150 PSI	580 PSI
T[]EU07S	0-14 InHg	60 InHg

The conditions and tests required for TSO approval of this article are minimum performance standards. It is the responsibility of those installing the article either on or within a specific type or class of aircraft to determine that the aircraft installation conditions are within TSO standards. TSO articles must have separate approval for installation in an aircraft. The article may be installed only if performed under 14 CFR article 43 or applicable airworthiness requirements.

Warranty

UMA, Inc. warrants all products to be free from defects in material and workmanship under normal use and operation. UMA does not warrant any product which has been damaged as the result of accident, abuse, negligence, improper operational voltage, lightning, fire, flood, or other acts of nature. Any indication that the unit has been opened can void warranty. Under no circumstances shall UMA be liable for any loss or damage, direct, consequential or incidental, arising from the use of or inability to use this product.

This warranty is limited to the rebuild or replacement, at the manufacturer's option, of any product or part thereof, which has been returned to UMA within the specified warranty period, and which after examination shall disclose to the customer service department's satisfaction that the product is defective. Transportation to the factory or authorized service center must be prepaid; the product after rebuild or replacement will be returned at the expense of the dealer or end customer. This warranty does not apply to any product or integral part thereof, which has been altered or serviced by other than the manufacturer or authorized service center.

The warranty period is twelve (12) months to the user.

This warranty supersedes all other warranties either expressed or implied and shall be governed and executed under the laws of the Commonwealth of Virginia, U.S.A.