



1 1/4" & 2 1/4" NON TSO'd ELECTRONIC PRESSURE INDICATOR

Installation Instructions:

- All connections are to be made in accordance with AC 43.13.
- Additional wire and fuses may be necessary for installation of unit.
- Use shielded wires with appropriate temperature ratings for installation.
- Keep unshielded sections of wire as short as possible.

1. Mount indicator in desired location in aircraft's instrument panel.
2. Install pressure sensor in the proper location.
3. Connect the DB-9 connector to the shielded wire that will go to the sender.
4. Connect Power Input wires to DB-9 connector. (Refer to drawing below for wiring)
5. These can be unshielded if kept short and twisted all the way.
6. Connect Positive power input wire to switched aircraft power through appropriate fusing.
7. If gauges have internal lighting, connect wires to lighting inverter.
7. Connect wires to sender. (Refer to Installation Instructions of Sender for details).

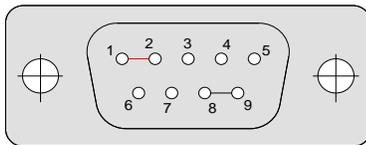
NOTE: UMA pressure senders for this gauge require power so there is a connection to Pin 3 (white/orange wire from the sender). The signal from the sender (WHT wire) is Pin 5 and the sender is also connected to the Ground (BLUE-WHT wire) at Pin 8. If VDO sender has one connecting screw only, just connect to Pin #5 and there is a GND through the chassis already!! If VDO sender has two connections, then second connection goes to low pressure warning lite-GND (Warning lite PLUS is connected to +12 or +28V)!

If you using 3 wire Honeywell press. sender with 4-20mA output, connect it same like UMA press. sender (Red to#3, Wht to#5, Blk to#8)!
If you using 2 wire Honeywell press. sender with 4-20mA output, connect Red toPin#2 and Black to#5!

For Murphy press. senders, connect signal wire to Pin#5 and if there is second one, connect it to the ground!

Refer to drawing below for proper pin wiring

DB-9 CONN.



Pin #1	Voltage Input +14÷28V	} INTERNALLY CONNECTED
Pin #2	Voltage Input +14÷28V	
Pin #3	Regulated Voltage Output to the sender (Only when sender requires voltage) NOT VDO!!	
Pin #4	Not used!	
Pin #5	Positive / Primary Signal Input (Used in all gauges)	
Pin #6	AC EL. Lighting Input (Internal lighting ONLY) – Optional–Light Inverter Required!	
Pin #7	AC EL. Lighting Input (Internal lighting ONLY) – Optional–Light Inverter Required!	
Pin #8	GND	} INTERNALLY CONNECTED
Pin #9	GND	

Solder side on cable connector

Specifications:

Supply Voltage: 12-28 Volts DC (Nominal) 10-30 Volts DC (Max)
Current Draw: 100 mA (Maximum)
Accuracy: ± 3%
Weight: 4 oz.

NOTE:

Do not use sealant (including Teflon tape or plumbers pipe dope) on the threads of temperature or pressure senders. This will not allow the sender to properly ground itself to the engine and will cause the temperature to register high and the pressure to register low. This does not include floating ground senders which include a second terminal specifically for grounding.

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 repair 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 repair 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, USA