



Aircraft and Medical Instruments

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2 1/4" Electronic Pressure Gauge Installation Sheet

For use with 1EUxxxx Sender

Description:

The 1EU Series (Gauge, Differential or Absolute type) of Senders provide a voltage output that is increasing as pressure increases. These senders require power from the gauge.

Installation:

Install pressure sender on the engine. Use the side of the sender marked with a "W". The other side of the sender should be vented to atmospheric pressure for the gauge type sender *or* to a differential input for a differential type of sender. Absolute senders will not have any other input. Mount the instrument in the aircraft panel. Using shielded cable of suitable quality and heat rating for use in an aircraft engine compartment for extension & power wires. Shielded cable is preferred!

- 1) Connect Black (or Blue-white) wire of sender and Black wire from instrument to same ground point.
- 2) Connect Red (or Orange-white) wire of Sender to Yellow wire of Instrument.
- 3) Connect White wire of sender to White wire of instrument.
- 4) Connect Red wire of instrument to 14 or 28 volts DC. Be sure to use a 1 amp fuse or circuit breaker.
- 5) If gauge has internal lighting, connect purple wires from lighting inverter to purple wires on gauge.

Testing:

With engine off and power switch on, Gauge should read 0 PSI. If you have Manifold gauge, then gauge should read real atmospheric pressure. If there isn't any pointer movement, check power connections.

Specifications:

Gauge

Power	14 or 28 volt system
Current Draw	100ma
Accuracy	+/- 2% of Full Scale (Including sender error)
Weight	4.7 oz.

Sender

Power	12 Volts DC from gauge
Current Draw	Less than 10 ma
Fittings	Female 1/8" x 27 NPT
Weight	2.0 oz

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

PS: IF YOU CONNECTING 2 GAUGES TO ONE SENDER,
CONNECT THE POWER TO THE SENDER FROM ONE GAUGE ONLY!
THAT IS A YELLOW WIRE FROM THE GAUGE. SAME YELLOW WIRE
FROM THE SECOND GAUGE DO NOT CONNECT, JUST ISOLATE.

GAUGE:

SENDER:

RED = POWER +10÷28vdc

BLACK=GND connect to.....BLUE-WHITE

YELLOW= +12v OUT to sender.....ORANGE-WHITE

WHITE = SIGNAL from the sender.....WHITE