



**Aircraft And Medical Instruments**

**UMA, Inc.**

260 North Main St.  
PO Box 100  
Dayton, VA 22821

PH# 540-879-2040  
Fax# 540-879-2738

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### **Mechanical Manifold Pressure Indicator 7-100, 7-200, 7-300 Series**

#### **Description:**

A manifold pressure gauge indicates the pressure in the intake manifold of the aircraft. For non turbo engines it will always be less than atmospheric pressure when the engine is running.

Manifold pressure is used with engine RPM to provide the pilot with an indication of the power his engine is producing.

#### **Connections:**

Install line to intake manifold or to a port on a cylinder used for this connection.

Some Lycoming engines have a port in each cylinder which may be used for either a primer or a manifold pressure connection.

**Connect:** Port "V" to line, use 1/8" NPT fitting.

Install a loop in the line with a drain valve at the bottom and drain fluids occasionally.  
drain fluids occasionally.

**Inaccurate Readings:** Manifold pressure indicators read absolute pressure (the weight of the air on the gauge) That pressure, when corrected for altitude to sea level, for temperature and for gravity, is the pressure used to set the altimeter called "Altimeter Setting, Sea Level Pressure, or Barometric Pressure" This is the pressure reported in aviation and weather reports. The only time the manifold pressure and the barometric window on the altimeter will agree is on the ramp at sea level with the engine off.

To check your gauge, you will need to use the Station Pressure as measured by a mercury barometric rather than the number from the television or weather office.

#### **NOTICE**

**This article is not FAA approved. This part is not FAA certified, and was not manufactured under a FAA production approval (PMA/TSOA).**

**Disclaimer: These are general installation guidelines written without any guarantee from UMA, who also disclaim any liability incurred in connection with the use of this data or specific details. Please refer to the engine/aircraft manufactures recommendations for all connections.**

#### **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.



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