



**1" GYRO SUCTION GAUGE
UMA# 3-200-12**

Installation Instructions:

- 1.) Mount gauge in instrument panel at the desired position.
- 2.) Connect 1/4" hose nipple (or 1/8" NPT fitting) on back of instrument (designated P) to vacuum source.
- 3.) Next, connect second nipple (or fitting) of instrument (designated V) to line vented to atmospheric pressure.

SPECIFICATIONS:

Description:	Indicates amount of vacuum produced by an engine-driven vacuum pump or a venturi tube.		
Appearance:	Case and dial background are Dull Black. Markings are matte White. Pointer is matte White.		
Case:	Material: 1" - abs plastic	1 1/4" & 2 1/4" square - aluminum	1 1/4" - abs plastic
Scale Error:	All Black in color Suction: ± 3% within Green Arc ± 5% outside Green Arc		
Leakage:	At an internal pressure of 5 inches Hg. the leakage shall not exceed .5 inches Hg. per minute.		
Weight:	65 Grams/ 2.3 oz.		

Troubleshooting inaccurate Readings:

- 1.) If gauge is reading erratic first check filters in system, if clean and all lines are open and not leaking, connect a vacuum pump into the system to check instrument operation with a known vacuum source.



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**FAA-PMA Installation Eligibility
for 1" Gryo Suction Gauge
UMA Part # 3-200-12**

Project #: PQ1000NE, Supplement No. 1, Date: May 1, 2000

Make: Maule

Model: models equipped with Lycoming O-320, O-360, IO-360, O-540 and IO-540 engines, when optional vacuum system is installed and produced under Maule Air, Inc. Type Certificate #3A23.

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, U.S.A.