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1 1/4" & 2 1/4" Electronic Fuel / Air box Differential Pressure Gauge N04X18U007P0X0
for Rotax 914 Engines

For use with UMA N1EU07D Sender only

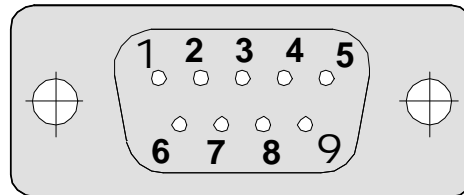
Description:

On Rotax 914 engines, monitoring fuel pressure is critical. The fuel pressure must be measured against the air box pressure. This can be done using two gauges, one fuel pressure, one air box, then mentally subtracting the difference or by using this gauge. This gauge displays the differential pressure between the fuel system and air box with a differential pressure sensor, the UMA N1EU007D.

Installation:

Install the pressure sender in an area convenient to the connections on the engine. The mounting threads are 5/8-18. Connect side of sender marked with a "W" to the fuel line close to the carburetors. Use 1/8-27 pipe thread fitting. Connect the other side of sender to the air box. This can be done by inserting a "T" in the carb vent lines that go to the air box. Use a 1/8-27 pipe thread, barbed insert into the sender. Make sure all fittings on the air box lines are tight using spring clamps or tie wraps. Mount the instrument in the aircraft panel. Using shielded cable of suitable quality and heat rating for use in an aircraft engine compartment, connect the sender to the gauge as follows:

- Pin 1** Voltage Input
- Pin 2** Voltage Input (Internally connected to pin 1)
- Pin 3** Regulated Voltage output to Sender
- Pin 4** Not used
- Pin 5** Positive / Signal Input (Used in all gauges)
- Pin 6** EL Lighting Input (Internal lighting only)
- Pin 7** EL Lighting Input (Internal lighting only)
- Pin 8** Signal GND (Internally connected to pin 9)
- Pin 9** GND (Connect to aircraft ground)



Testing:

With engine off and power switch on, Gauge should read 0 PSI. Normal readings are between 2.9 and 5.1 PSI.

Specifications:

Gauge		Sender	
Power	14 or 28 Volts	Power	12 Volts DC (from gauge)
Current Draw	100ma	Current Draw	Less than 10 ma
Range	0 to 7 PSI	Output	0.2-4.5 V DC
Accuracy	+/- 0.2 PSI	Fittings	1/8" x 27 NPT
Weight	4.7 oz.	Weight	2.0 oz
		Mounting Threads	5/8-18

G A U G E
Calibration Sheet
for N or T 1EU07X Sender (G or D)

Unit: _____

P/N: _____

PSI	Voltage Volts	Reading PSI	Error
0	0.20	_____	$\pm 0.11V$
1	0.82	_____	
2	1.44	_____	
3	2.06	_____	
4	2.68	_____	
5	3.30	_____	
6	3.92	_____	
7	4.54	_____	

Calibrator _____

Date _____

Inspector _____

Date _____

Notes: _____

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