



FUEL PRESSURE FOR ROTAX ENGINES 912 914. Diameter 57mm. Units : PSI IM-566

Preface

The IM-566 instruments have been designed especially to measure the Fuel Pressure in Rotax® engines 912.

The IM-566 is available in 57 mm size.

The instruments have been designed to work with both 12V and 24V systems.

The minimum instrumentation requirements for BRP ROTAX® four stroke engines include a gauge for the continuous fuel pressure monitorization.

General Information

ATTENTION : The IM-566 has not undergone any safety or durability examination to Civil Aviation standards but does incorporate the latest technical development and has been thoroughly tested. Despite the fuel pressure gauge being a precision instrument, false indication or misinterpretation of data could occur. By utilizing this instrument the user acknowledges the possible danger and responsibility for all risks.

State of receipt

- Instruments packed in a plastic bag
- 4 attachment screws
- 3 Loose plugs



Technical data

Case:	Plastic
Weight:	220g
Suitable for:	UMA 35 PSI Sender
Power Supply:	10..30VDC
Power Current:	0.1 Amp. Max.
Scale:	0..8 PSI
Subdivision scale:	0,2 PSI
Max. Deviation:	1%
Dimensions:	See sketch
Calibration:	Calibrated by the manufacturer prior to shipment.

*Please refer to the updated User Manual of your engine BRP-ROTAX® engine for the operational limits

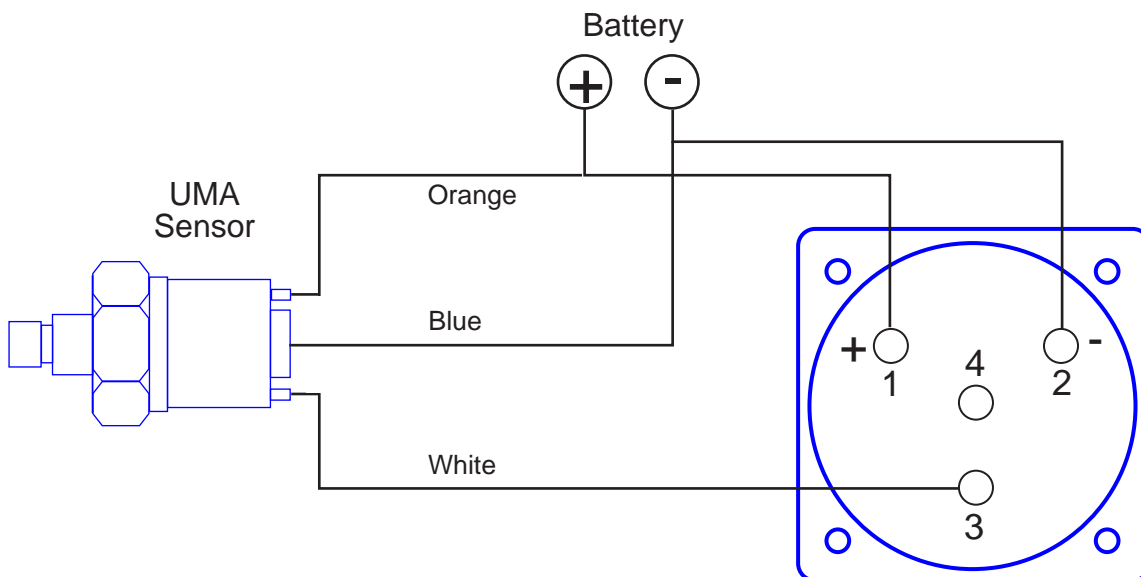
Installation Instructions

- Install instruments in pilot's field of vision, free from vibration and glare.
- Protect the instruments against dampness and any kind of gasoline or acid.
- Pay attention to installation dimensions
- Wiring has to be carried out with good quality plastic-sheathed cable.
- When routing cables, prevent possible damage to cables from heat, vibration, shearing or crushing.
- Install a breaker or fuse of 1 Amp.

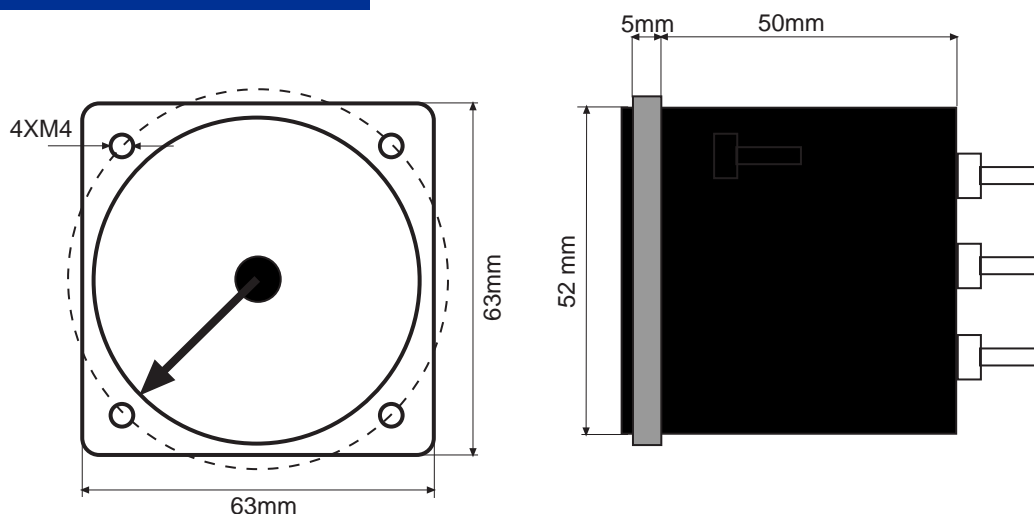
Instruments Terminals

- 1) (+) Red wire to positive terminal of battery.
- 2) (-) Black wire to negative terminal of battery.
- 3) Input to the Fuel Pressure Sender.
- 4) Factory calibration input.

Wire Connections



Dimensions

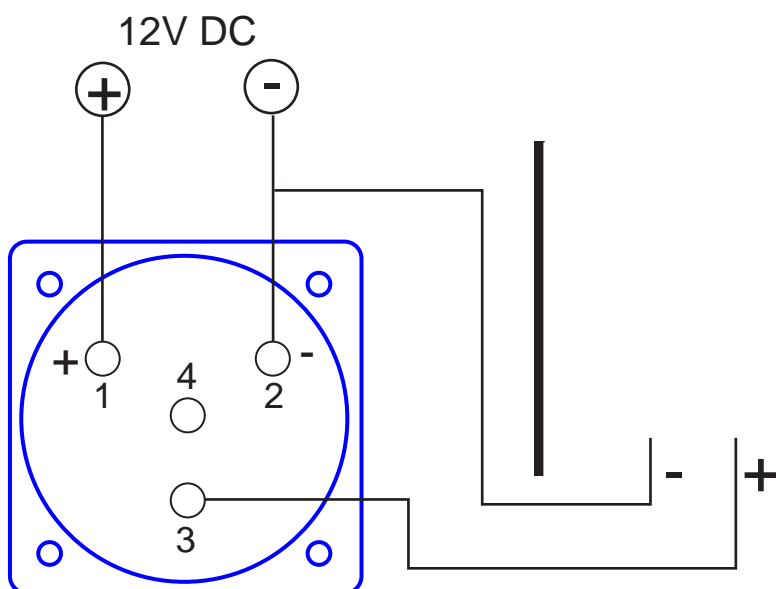


Test & Calibration

The electronic UMA sensor is a very accurate voltage generator. With his internal regulator the measurements are not affected for the length of the cable or for the value of the power supply.

To test the instrument, you need to have a low voltage generator.

In the chart you can see the ratio Voltage / PSI
For example applying 0.704 V, the instrument should display 4 PSI.



PSI	Voltios
0	0,2
0,5	0,263
1	0,326
1,5	0,389
2	0,452
2,5	0,515
3	0,578
3,5	0,641
4	0,704
4,5	0,767
5	0,83
5,5	0,893
6	0,956
6,5	1,019
7	1,082
7,5	1,145
8	1,208
8,5	1,271
9	1,334
9,5	1,397
10	1,45