Mid Service Centre Ltd Electronic Consultants and Manufacturers

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Fluid Gauges Installation and Calibration instructions.

Thank you for purchasing a fluid level gauge from us. Your unit has been calibrated to suit a tank depth of cm. inches.

Installation ¾" BSP Socket.

Fit the ¾" compression fitting to the tank using thread seal tape – do not over tighten. Your unit has been factory calibrated to suit your tank so re-calibration should not be necessary, but if it is then proceed with the section in brackets, if not omit this section.

[Fill the tank with fresh water to within 2.5 cm of the top. Filling at this stage prevents water sitting in the overflow pipe, which could give a false "full" reading when the time comes for calibration.]

Slide the sensor through the compression fitting until it touches the bottom of the tank then pull it back approximately 20mm.Tighten the compression nut until it just grips the plastic sensor tube then tighten a further half turn.
On no account must the breather tube be blocked, as it will prevent the unit from working. This tube goes to the sensor only and there is no path to the wastewater.
Mount the electronics box on the top of the tank using the Velcro strips provided.
This completes the fitting of the sensor.

Installation Universal fitting (Rubber bung)

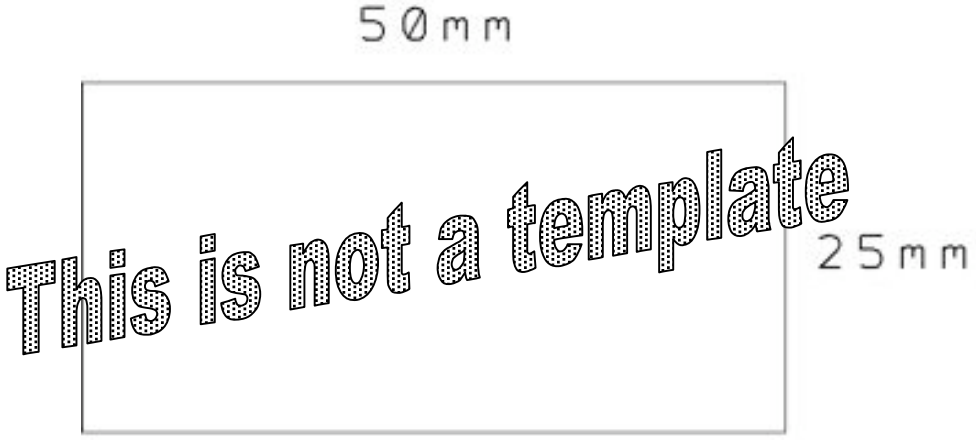
Where a ¾" BSP socket is not fitted to the tank an expanding rubber bung system is used.
Choose a place where there is good access above the tank and using a hole saw, cut a 32mm hole. Remove all loose pieces of swarf and check that the hole has a reasonable finish. Using the silicone grease provided grease the hole sparingly and insert the bung with the larger diameter on the outside of the tank. Your unit has been factory calibrated to suit your tank so re-calibration should not be necessary, but if it is then proceed with the section in brackets, if not omit this section.

[Fill the tank with fresh water to within 2.5 cm of the top. Filling at this stage prevents water sitting in the overflow pipe, which could give a false "full" reading when the time comes for calibration.]

Grease the sensor tube then slide the sensor through the bung until the black line on the sensor tube is just flush with the top face of the bung. This should position the lower end of the sensor approximately 20mm from the bottom of the tank.
On no account must the breather tube be blocked, as it will prevent the unit from working. This tube goes to the sensor only and there is no path to the wastewater.
Mount the electronics box on the top of the tank using the Velcro strips provided.
This completes the fitting of the sensor.

Mounting the Gauge and Electrical Connection.

Mount the gauge having first removed the cable support cable tie. Take care as the tags on the gauge will be damaged if the cable is pulled hard, so try to support the cable reasonably close to the gauge after installation.
The hole cut-out for the gauge is as per diagram
Use the two black screws provided to secure the gauge unit to the panel.



Connect the wires to the plug as shown in the diagram using a supply in the range of 12-24volts.
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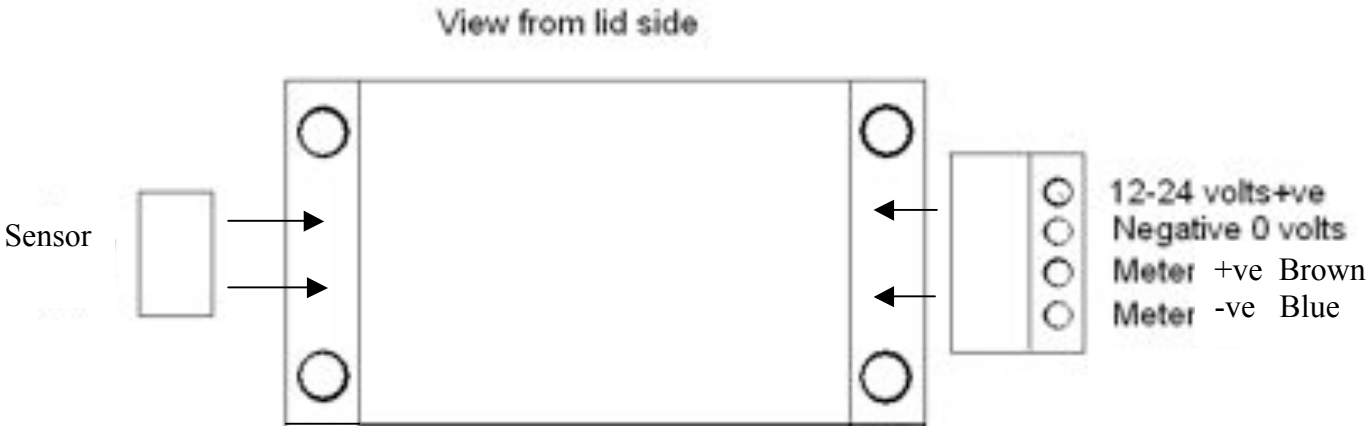
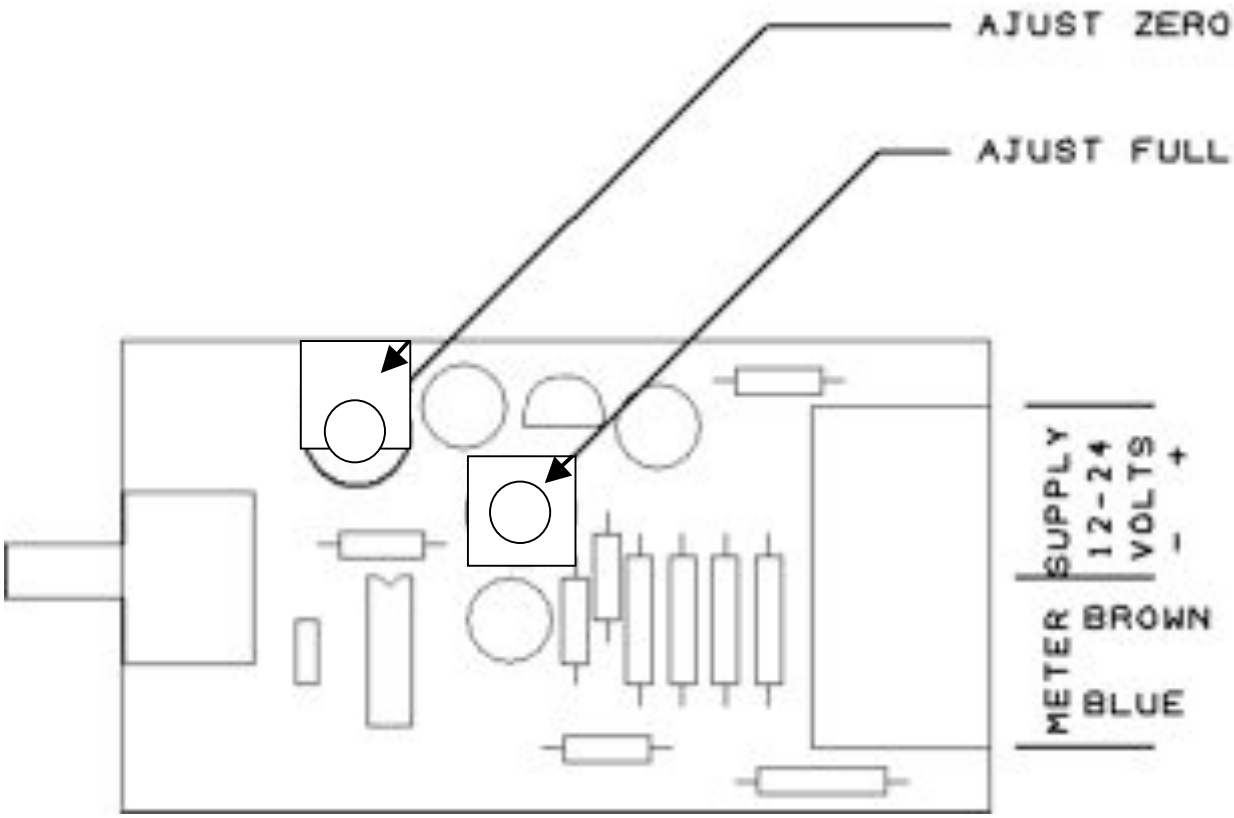


Insert the plugs into the unit ensuring that the two retaining clips on the plug fit over the OUTSIDE of the socket

The unit will now be operational .

Calibration Procedure.

This section should not be needed unless the tank depth has been wrongly specified. Please consult the manufacturer if in doubt.



The tank should be full of water so set the gauge to 10 using the ‘adjust full’ control (using a small screwdriver). Adjustment must be made slowly as the gauge needle takes time to settle.

Installation is now complete so please fit the case lid using the four screws provided.

The “Adjust zero” control should not be moved as this is only used to calibrate the sensor. Should the gauge not read zero after a pump out contact the Manufacturer.