



THIS IS CONFIDENTIAL INFORMATION.  
THIS DRAWING AND DESIGN IS THE PROPERTY OF LIQUIP INTERNATIONAL PTY LTD.  
IT MUST NOT BE COPIED OR REPRODUCED IN ANY WAY WHATSOEVER AND/OR  
PASSED ON TO ANY THIRD PARTY WITHOUT WRITTEN AUTHORITY.

LIQUIP INTERNATIONAL PTY LIMITED - ENGINEERING DEPARTMENT - 13 HUME RD SMITHFIELD SYDNEY NSW AUSTRALIA 2164  
PH: +61 2 9725 9000 FAX: +61 2 9609 4739 EMAIL: engineering@liquip-nsw.com.au

## **Diptronic Aviation Calibration Procedure**

**P7402 Issue: B**

These instructions are to be used when calibrating an aviation refueller fitted with Diptronic.

1. Overfill system temporary disablement:

To complete a full calibration the overfill system must be disabled. This is done by dummifying out via the MPP102.

- 1.1 Remove the 4 screws fixing the MPP102 lid and remove the lid.
- 1.2 Unscrew the fibre optic connectors and pull out the fibre optic cable.
- 1.3 Insert a fibre optic loop into the connectors and screw tight.
- 1.4 Undo the white and black wires from the screw terminal block.
- 1.5 Insert the white and black wires of a dummy LDP102 and simply let it hang from the MPP102.

2. Solenoid valve disablement:

- 2.1 Remove the lid of the junction box under the filter lid on the passenger side of the truck.
- 2.2 Locate the purple and white wires entering a solenoid. Use a small flat head screwdriver to turn the over-ride screw from '0' to '1'.
- 2.3 Locate the orange and white wires entering a solenoid. Use a small flat head screwdriver to turn the over-ride screw from '0' to '1'.

3. Preliminary steps to calibration:

- 3.1 Empty the compartment to be calibrated if product above weir.
- 3.2 Ensure the retaining weir inside the tank is full. To do so, pump in a few hundred litres into that compartment then empty either via the gantry or via the truck hose reel (into another compartment) depending on the mode of calibration.
- 3.3 If calibrating via the hose reel, push the product in and product out valves for that compartment and cycle a few hundred litres to prime the system.

*Note:* the deadman switch must be disabled to pump into or out of a compartment. To do this either press the deadman button while pumping or use an over-ride key.

4. Diptronic calibration:

- 4.1 Refer P7326 Diptronic Calibration for details on compartment calibration.
- 4.2 On completion of the calibration empty the compartment and verify as per instructions.

*Note:* Disconnecting the mil spec connector on the top left side of the CPU leading to the PLC will enable switching between compartments via the CPU irrespective of internal valve status.

5. Post calibration restoration:

- 5.1 Remove the fibre optic link and dummy LDP102 from the MPP102.
- 5.2 Re-install the removed fibre optic cable and black and white wires.
- 5.3 Locate the purple and white wires entering the solenoid in the junction box under the filter lid. Use a small flat head screwdriver to turn the over-ride screw from '1' to '0'.
- 5.4 Locate the orange and white wires entering the solenoid in the junction box under the filter lid. Use a small flat head screwdriver to turn the over-ride screw from '1' to '0'.
- 5.5 Replace the junction box lid and any disconnected mil spec connectors.
- 5.6 Lead wire seal the Diptronic CPU and sensors as necessary.