

## **TECHNICAL BULLETIN**

**8<sup>TH</sup> October 2010**

### **TS1 upgrade:**

Modifications have been made to the BEP TS1 Ultrasonic Tank sender to improve its performance across a broader range of installations

An area of challenge has always been trying to accurately measure a liquid level when it is not parallel to the face of the sender protrusion i.e. the top plate of the tank is not parallel, the vessel/vehicle is not sitting level or the liquid in the tank is sloshing around heavily. When these situations occur the signal returning to the TS1 can be reflected away from the 'listening' TS1, the result being inaccurate or no level readings on the display connected to the TS1

Software and mechanical modifications to the TS1 which have resulted in a wider ultrasonic beam have seen considerable improvements in the above situations

### **Improvements:**

- ✓ Improved shallow tank accuracy and shallower tank operating range
- ✓ Improved accuracy in reading liquid levels that are at an angle to the sender protrusion
- ✓ Improved accuracy in waste tank applications
- ✓ Barrier around protrusion to stop contact of protrusion with tank lid and sealants (contact causes significant loss of signal/accuracy)

### **Changes to installation:**

The above changes to the TS1 have meant that the **TS1 can no longer be used with a sender tube.** the tube will interfere with the wider beam angle which causes the sender to return no or very inaccurate reading.

For any questions on this bulletin or any other BEP product please feel free to contact your BEP representative