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Ultrasonic Tank Sender–Technical Bulletin

In BEP Marine advertising material, packaging and instruction manuals the Ultrasonic Tank Sender (**TS1**) is described as being capable of measuring depths between 0 and 2000mm.

When using ultrasonic technology there are inherent technical issues when measuring distances less than 150mm. When designing the **TS1**, BEP Marine developed a technology that enables measurement of distances in the 0 to 150mm range, albeit with a reduced accuracy.

The **TS1** has an accuracy of ± 3 mm when measuring distances between 150mm and 2000 and ± 30 mm between 0 and 150mm. As a result when installing a **TS1** in a tank less than 200mm in depth, there will be a decrease in accuracy

As an example when a 100mm tank is half full, the **TS1** could be displaying anything from 20mm to 80mm. In other words anywhere between 20% and 80% tank capacity.

When the **TS1** is used in tanks with a depth between 200mm and 2000mm the decrease in accuracy becomes less significant.

As a result BEP Marine does not recommend the use of the **TS1** in tanks with a depth of 200mm or less.

Mid next year BEP Marine will be developing a 0-600mm tank sender specifically designed for the shallow tank