

	SONARtrac[®] Technical Bulletin	
	Subject: Transmitter Totalizer Problem	TB009 Rev: 01
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A problem with the transmitter totalizer function has been found. The problem exists in all Firmware Releases up to and including 03.03.26.

The totalizer will improperly calculate flow totalization with a cumulative error of up to 20 percent. In addition, the pulse output, when operating in totalizer mode, will not output the correct value.

Firmware release 03.03.27 contains corrections to the totalizer problem. The internal calculation of totalization has been corrected to accurately track totals over the full range of the totalizer. Totals are stored in the configured units to remove any range/translation errors. The totalizer will now be accurate over the full range of 0 to 4.00e11, in whatever units are configured.

To maintain precision, the Pulse Output in totalizer mode is now based solely upon the delta flow rate from update to update. Previously, the Pulse Output was calculated based on the delta totalizer value from update to update. This method introduced errors at high totalizer values due to the internal precision of the stored values.

Display of totalizer has been optimized to change based on the current size of the total being displayed. At low totals, several decimal places will be displayed. At large totals the display will switch to exponential notation and take maximum advantage of the display area available based on the configured units string size.

In addition, display of the totalized value based on the number of displayed digits has been modified such that the displayed digits are truncated, not rounded. Doing so will accurately display the most significant digits when totals are displayed in exponential notation.

Problem resolution is to upgrade the transmitter firmware to version 03.03.27 or later.

Please feel free to contact CiDRA Technical Support with any questions.

Priority Code:			
1	Safety issue or system will not function	2	Intermittent problem causing system crash
3	Erratic data/readings	4	Added product feature
5	Product enhancement		

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Document Change History

Date	Revision	Changed By	ECO #	Description of Change
3/26/07	01	B. Markoja	E07-0031	Initial Release

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