	SONARtrac™ Technical Bulletin	
	Subject: Spike Filter Problems	TB010 Rev: 01
		Priority: 1
		Page 1 of 3

Summary: Under certain circumstances, issues have been identified with released versions of the spike filter that can cause improper functionality.

Problems:

Problem 1 (Version 03.04.03 ONLY): The spike filter in Firmware Release 03.04.03 will cause the transmitter to not function under certain circumstances. These circumstances are as follows:

1. Enabling the spike filter from the transmitter keypad.
2. Enabling the spike filter from StBasic, StPro, and SONARtrac Field Service Utility.
3. Making changes to any filter (Noise Reduction, Damping, Spike) using the transmitter keypad or any of the utilities listed in item 2 above when the spike filter has been previously enabled.

It is important to note that the problem will not occur if changes to the filters are made using the USB port (load a new configuration file).

Problem 2 (Version 03.04.03 and earlier): When using the front panel menus, spike filter settings 'percent/delta', 'percent window length', 'no flow length', 'up count', and 'down count' are not saved to flash memory and have to be re-entered if the transmitter loses power. Note that all parameters may not be available in all affected versions.

Workaround:

Problem 1: After performing any of the items listed under Problem 1 above, perform any one of the following workarounds to properly enable the appropriate filter functionality:


1. Perform a sensor test from the transmitter front panel.
2. Take a Snapshot using StBasic, StPro, SONARtrac Field Service Utility or the SONARstick.
3. Use the USB port to make any filter changes (i.e. load a new configuration file from the SONARstick).
4. Perform a system reset by either pressing the reset switch on the terminal board or cycling power to the transmitter. **Important Note:** Data History will be reset. If this is important to archive, download Data History prior to setting the spike filter.

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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	SONARtrac™ Technical Bulletin	
	Subject: Spike Filter Problems	TB010 Rev: 01
		Priority: 1
		Page 2 of 3

5. Use Flow Dev. and set the device to Idle mode by pressing the “Stop” button, change the desired filter parameters, and then press the “Start” button.

Problem 2: Perform any one of the following workarounds to properly store spike filter parameter changes to flash memory:

1. When changing spike filter parameters via the front panel menus, after making filter parameter changes, select Spike Filter ‘**Enable**’ as the last parameter change.
2. Whenever a spike filter parameter is changed select Spike Filter ‘**Disable**’ and then reselect Spike Filter ‘**Enable**’
3. Use StBasic, StPro, SONARtrac Field Service Utility, Flow Dev or the SONARstick to modify filter parameters.

NOTE: For version 03.04.03 ONLY, it is necessary to then perform any one of the workarounds listed under Workarounds for Problem 1. For any earlier version, this additional step is not required.

Problem Resolution:


A permanent fix will be implemented in the next release of firmware.

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		Priority: 1
		Page 3 of 3

Document Change History

Date	Revision	Changed By	ECO #	Description of Change
24May07	01	Markoja	E07-0057	Initial Release

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