



Application Note

App. Note Number: 1015

Title: H-3611 Radar Mapping

Description: This document will describe how to do a mapping in the H-3611 radar using the built in LCD keypad

Product: H-3611 Radar Level Sensor

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Introduction:

This application note was written to show how to do a mapping in the H-3611 Radar sensor. Mapping a H-3611 radar might be needed due to obstructions that interfere with the radar signal path to the water. When there are obstructions there may be jumps in the data where the radar tracked onto one of these obstructions instead of the water. By performing a mapping in the radar you can eliminate all possible fixed obstructions that are causing jumps in the data. Doing a mapping in the radar lets the radar know where there are obstructions that cause false reflections and then the H-3611 radar will ignore these reflections and track only the water reflections.

Step 1: Remove Display

To remove the LCD display from the H-3611 housing there is a small clip on the display closest to the horn, push to release the display.



Step 2: Basic Setup Menu

From the main screen as shown above press the 'E' key and this will open the "Group Selection" menu as shown to the right.

Highlight "basic setup" and then press the 'E' key to enter the "basic setup" menu and keep pressing the 'E' key until you get to the menu, "check distance".



Step 3: Check Distance Menu

Using the '-' and '+' keys highlight "manual" and then press the 'E' key to select, which will put a check mark next to the option. Press the 'E' key again to continue.

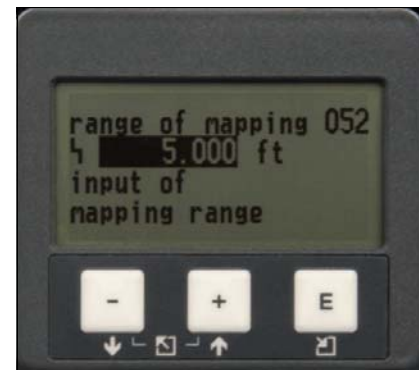
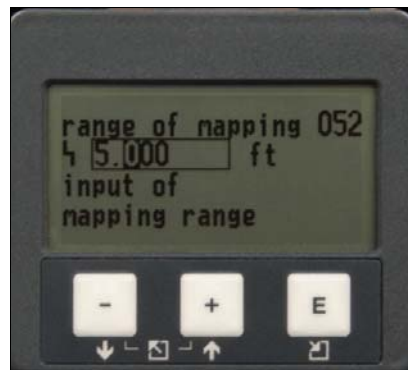
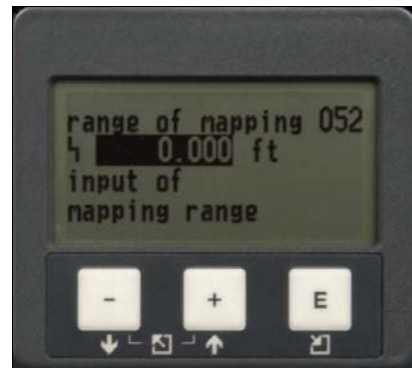


Step 4: Range of Mapping Menu

Using the '-' and '+' keys enter in the range of mapping value pressing the 'E' key to accept a character. This value should be a distance value that is just before the actual distance to water

value. **The value you enter is “distance to water” - 2ft.**

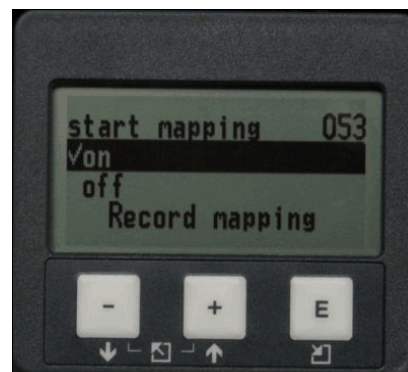
For example, if the distance to water value is about 7 ft then put 5 ft as the range of mapping value. If the range of mapping value is set beyond the distance to water value then the H-3611 Radar will map passed the water not to the water. Press the 'E' key to continue



Step 5: Start Mapping Menu

Highlight “on” and press the 'E' key. Doing this will put a check mark next to “on” and cause a mapping to initiate.

The screen will blink the message “record mapping” as shown below. The highlight and check mark will return to “off” when the mapping is done.



Step 6: Finished

Press the 'E' until back to “Group selection” menu then press the '-' and '+' buttons together to return to measured value screen. Verify that the measured distance to water value looks correct.