December 12, 2023 – xyztec bv

User manual

How to: Re-calibrate shear height clamp after firmware update

Rev 0

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Abstract

This manual shows the steps required for calibration the shear height clamp after the firmware update end of 2023.

This is to make sure the shear sensor can be used again and is clamped properly.

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Revision History

REV	DATE [YYYY/MM/DD]	CHANGED BY	CHANGES
0	2023/12/11	Daan Joosten	Creation

1 Problem description

After updating the Measurement Unit [MU] firmware to version 5.9.8717.46562 it is required to re-calibrate the shear sensors. If not re-calibrated shear sensors will remain disabled and cannot be used. The reason for this firmware update is improvements in the algorithm behind the shear height clamp settings.

2 After software update

When software is updated and started a message will be shown requesting a firmware update for MU.

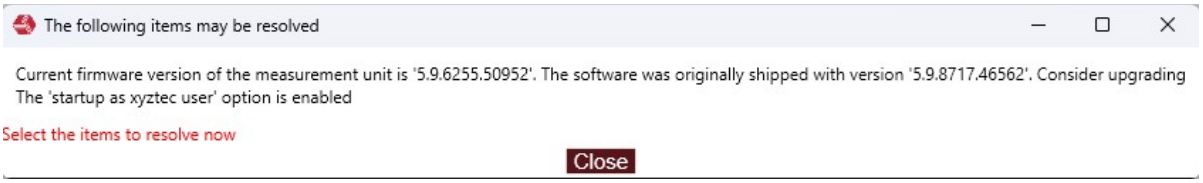
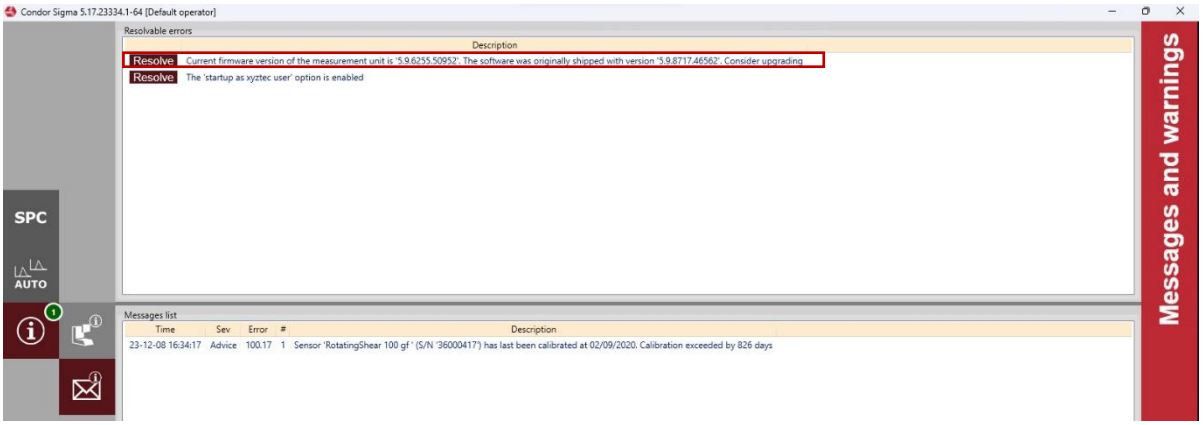


Figure 1 - Firmware upgrade message

This “error” can be resolved in the information screen at tab “Messages and warnings”. The error can be resolved by simply clicking the resolve button in front of the message.



Make sure you are logged on an engineer or supervisor level otherwise an error will be shown that current user does not have sufficient rights.

Figure 2 - Unsufficient rights user

When the resolve button is pressed a message will show asking to wait until the update is successful.

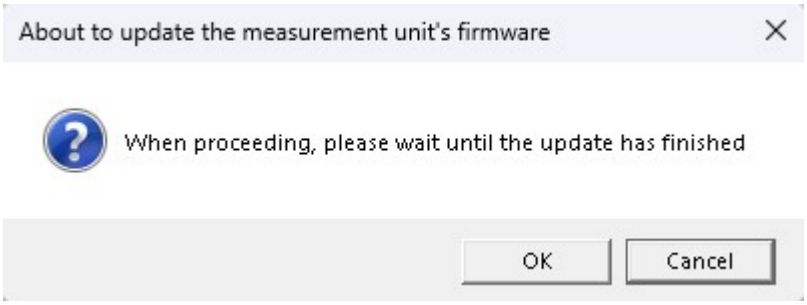


Figure 3 - Wait for update to finish message

After clicking OK on this message another message is show that says the shear height calibration needs to be performed after restart of the software.

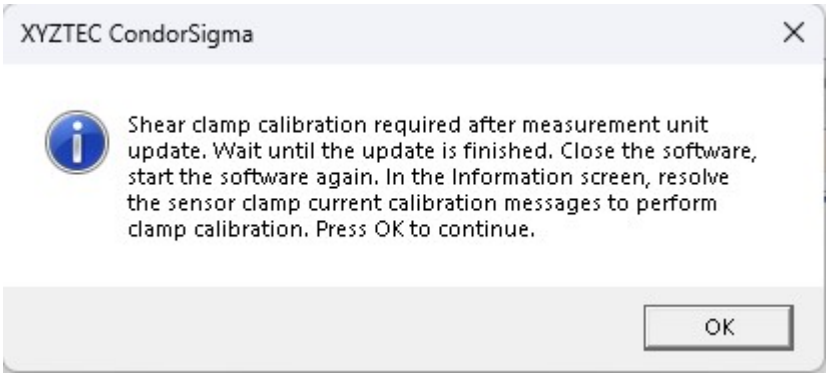


Figure 4 - Re-calibration shear height message before update

When OK is pressed on this message the update will start, showing a window like below. Wait until update is completed, after this window the update will resume on the background. This can be tracked by looking in the bottom left corner.

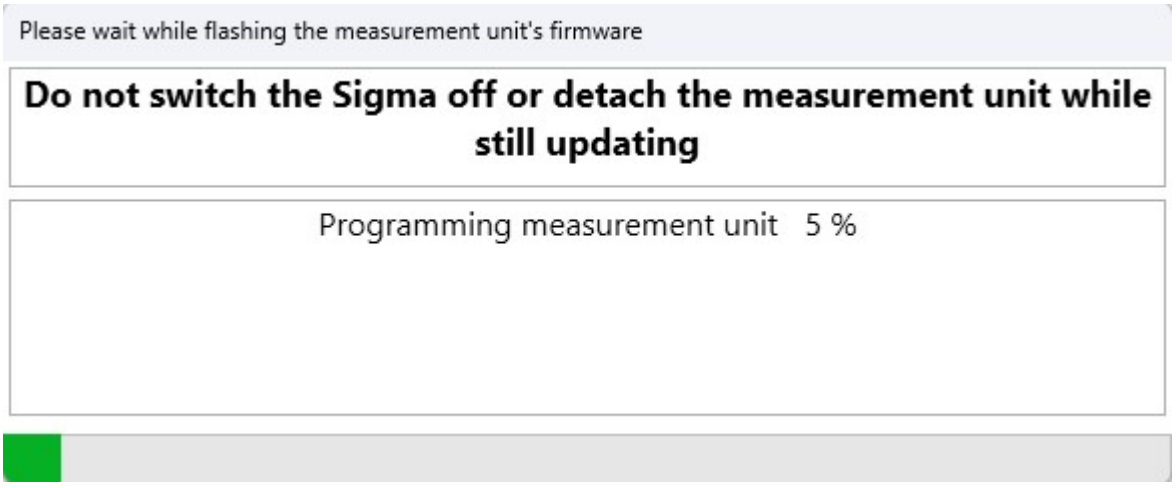


Figure 5 - Update progress

When update is completed the red resolve button in front of the message will turn green.

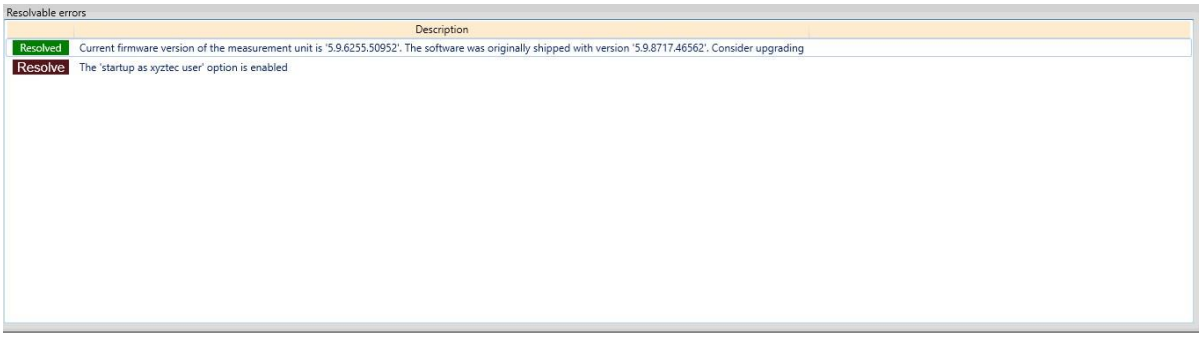


Figure 6 - Resolved message

Now the software can be restarted. After the software is loaded fully a message will show stating that all shear sensors need a new clamp calibration.

3 Re-calibration

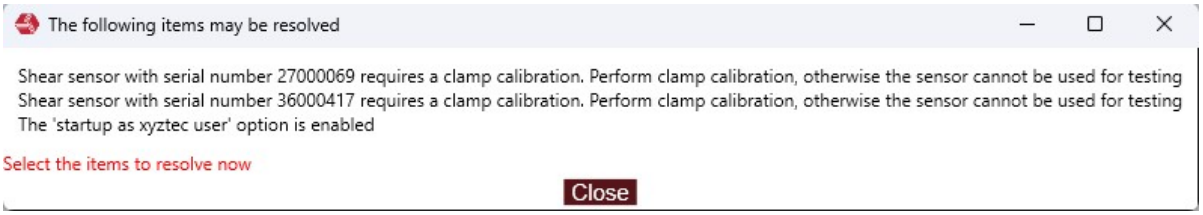


Figure 7 - Message re-calibration shear clamp

Again, navigate to the “Messages and warnings” screen and resolve the messages one by one. When clicking the resolve button a new window opens with calibration settings. These settings are default and can be left. The image below shows settings for 1kgf sensor, other sensors can have different default settings.

Figure 8 - Shear height calibration screen

Position the shear tool just above a fixed surface and click the “Run” button. Calibration will start, sensor will move down and up several times and clamp current will be increased automatically. When requirement result is OK a suggested clamp current is shown, this can be stored with the save button at the bottom of the shear clamp calibration screen. **Note: if after the calibration the shear height is not OK, Please contact your local representative.**

Figure 9 - Run abort and save section

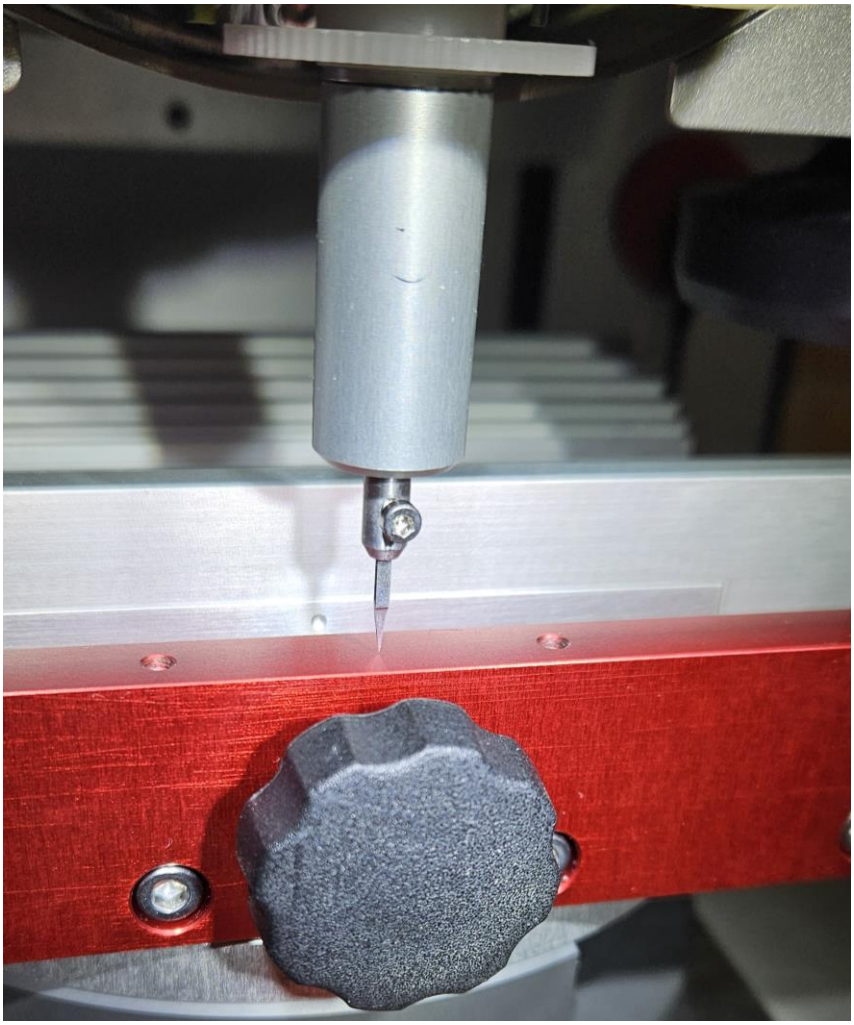


Figure 10 - Touchdown position