

Engineering Note: EN0086 Hydro-Control V Sensor Communication Drop-Outs

Summary: Hydro-Control V and HS0089 v1.13 Sensor firmware Communications Issues

Products affected: Hydro-Control (HC05), Hydro-Mix (HM07), Hydro-Probe Orbiter (ORB02)

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Summary

Sensors utilising firmware HS0089 v1.13 (HM07 and ORB2) are not fully compatible with the Hydro-Control V unit, as this version of firmware has the potential for communication issues with the HC05. All other versions of Hydronix sensor firmware are unaffected.

The communications failures are due to a small change in the delay time to a protocol request (potential increased delay). The potential increase in the delay time can cause some messages to be missed by the HC05 resulting in a sensor drop-out (Figure 1).

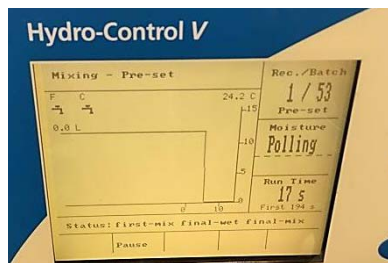


Figure 1: HC05 Sensor Drop-Out

Instructions

If a sensor with HS0089 v 1.13 is connected to a HC05 it is necessary that the firmware is downgraded to HS0089 v1.11.

If the sensor firmware needs to be changed please email our support team: support@hydronix.com and they will provide the relevant upgrade files.

To check the current firmware version, using the Hydro-Control V, follow the instructions below.

- Select "More" from the front page
- Select Setup
- Enter the password 0336
- Select "Diag"
- Select "H/W"

Changes to the firmware version are not possible using the Hydro-Control V, Hydro-Com software must be used. Contact support@Hydronix.com for assistance if Hydro-Com software is not available.