

WiM-mode DSP Versions 3.115 (2.5.12 / 10:59) **and 3.116 (5.6.12 / 15:50)**

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1. Underflow & Overflow Indication

(Both in general mode and in WiM mode)

If load cell is in **underflow** or **overflow**, then:

- * The LED Display shows **LoAd.Err.O** (Overflow) or **LoAd.Err.U** (Underflow).
- * A message is sent to the communication: "**Load Cell Err.Overflow**" or "**Load Cell Err.Underflow**" (optional).
This option is controlled by a new internal parameter in address 322:
0xAA = Don't send (default),
0x55 = Send
(the parameter takes effect only after a board reset).
- * If the load cell is in overflow/underflow and the board is in general mode, the board **rejects** a request to enter the WiM-mode. That is, if the user sends in communication the 'w' command, the board responds 'w' and 'x' (and if parameter #322 = 'Send' (0x55), also the message "Load Cell Err.Overflow" or "Load Cell Err.Underflow"), and **stays in general mode**. On the other hand, if the overflow/underflow condition occurs when the board is already in WiM-mode, the board **does not leave** the WiM-mode. However, false axes might be reported upon the start and/or the end of an overflow/underflow condition.

Note

The original purpose of the Overflow/Underflow message is to supply an immediate indication on a **real** overflow or underflow condition.

As a by-product, it **may** supply an indication also on disconnected load cell. However, such indication is neither for certain, nor immediate.

The reason is that in this case board's load cell input is **undefined**. **Usually**, within some seconds it will reach the Overflow or Underflow level, but sometimes it will **not** occur, so there will be no Overflow/Underflow indication.

2. Two improvements in the 'o' command (Axles reset):

(Only in WiM mode)

- * Duration = only 10 ms (was 600 ms).
- * If current weight > Threshold parameter, the board does not exit to general mode (as it did before), but the LED Display shows "Err 302" (there is **no error** in communication).

3. Max. Axle Counter

(Only in WiM mode)

Max. Axle Counter = 4000000000 (4×10^9); the next counter is 1.

Notes:

- * On the **LED Display** the user sees only the **2 last digits** of current Axle counter.
- * On **communication** the user sees only the **4 last digits** of current Axle counter.
- * New command '|' responses **Full** Last Axle counter + C/R

4. New command to read (within the WiM-mode) board's version

(Only in WiM mode)

A new command '~' responses '~' + VERSION NUMBER + C/R
(similar to the 'V' command in the general mode).

5. A new option to start the WiM-mode automatically upon board reset

In the LCIC-WIM-SETTINGS application (V2.25 and up), in the 'Stat/End Mode' frame, use the new 'Starts upon card reset' option:

- * When the option is **unchecked** (the default), upon reset the card stays in the general mode (as before).
- * When the option is **checked**, upon reset the card goes automatically to the WiM-Mode.
Parameter's address: 1074. Values: 0 = unchecked, 1 = checked.

6. A new option to reset axles by input #3

This option resets the axles like the command 'o' does.

In the LCIC-WIM-SETTINGS application (V2.25 and up), in the 'Parameters/Internal' frame, use the new 'Input#3 Mode' selection:

- 0 - Option off (default in V3.116)
- 1 - Option on (without response in communication) (default in V3.115)
- 2 - Option on including response 'o'+C/R

Parameter's address: #317.