

TECHNICAL NOTE

Defining the status returns available in the HI 2080 module.

The Instrument status would be found in the 'Read_wt_status' function block. The normal values returned would be:

Status Register Definitions

| Value | Bit | Error |
|-------|-----|--------------------------------------|
| 2 | 1 | Digital Gain Over Range |
| 4 | 2 | Analog Gain Over Range |
| 8 | 3 | Negative Value or Polarity Reversed |
| 32 | 5 | No Reference (Sense voltage missing) |
| 64 | 6 | ADC Error |
| 128 | 7 | ADC Ready |

Note: The unlisted bits are currently not used or reserved.

The command status, which can be read with the 'Get_cmd_status' function block, will return the status of any command previously run. These are:

| Value | Bit | Error |
|-------|-----|--|
| 8 | 3 | NSC; no such command, incorrect command number |
| 64 | 6 | CMD_ERR; command failed |

Note: The unlisted bits are currently not used or reserved.

STATUS DEFINED: Normally indicates a wiring issue or damaged load cell(s).

Digital Gain Over Range: Input from the load cells is out of range. Too high. Out of range of the digital gain of the ADC converter. Normally indicates a wiring issue or damaged load cell(s). This can also be caused by your sensitivity setting being too low for the load cells you are using.

Analog Gain Over Range: Input from the load cells is out of range. Too high. Out of range of the analog gain of the ADC converter. Normally indicates a wiring issue or damaged load cell(s). This can also be caused by your sensitivity setting being too low for the load cells you are using.



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Negative Value or Polarity Reversed: Input from the load cells is neg. Normally indicates a wiring issue or damaged load cell(s).

No Reference: No Sense voltage. Normally indicates the sense terminals are not wired or bad connection.

ADC ERROR: The input from the load cells is out of range in some manner. This is typically present along with one of the other status bits.

ADC READY: This is an indication that the input from the load cells is within range and everything is ok.

COMMAND STATUS DEFINED:

NSC: No such command. Indicates the command value sent is an invalid value.

CMD_ERR: The command failed.