

HARDY 5034 Quick Reference 1.2

- Add an AENTR module.
- Add the 5034 on the tree of the AENTR. (Cat# 5034-WS-HI)
- Double-click the module in Logix to use the AOP to configure the module. E.g. Lbs, KG, etc.
- The module will be named after the AENTR module, then the number of the module on the backplane. See below for tag table names. E.G. The first module will be “:1”. HARDY_5034_AENTR:1:I.Ch0

LED:



Red or Flashing Red LED:
MOD:
Check Power Wiring
S/A Power:
Check Power Wiring
CH1:
Check Sig +/- mV Reading

WIRING:



RTB	Name	Desc.
0	In-0	Signal -
1	In-1	Signal +
2	In-2	Excitation +
3	In-3	Sense +
4	In-4	Sense -
5	In-5	Excitation -
6	In-6	C2+ (Cal)
7	In-7	C2- (Gnd)
8	In-8	Frame Gnd
9	In-9	

Instrument Status, Gross and Net Weight, Command (CMD) Status Locations:

Name	Value	Style
▲ HARDY_5034_AENTR:1:I	{...}	
HARDY_5034_AENTR:1:I.RunMode	0	Decimal
HARDY_5034_AENTR:1:I.ConnectionFaulted	0	Decimal
HARDY_5034_AENTR:1:I.FieldSidePwrFault	0	Decimal
HARDY_5034_AENTR:1:I.DiagnosticActive	1	Decimal
▶ HARDY_5034_AENTR:1:I.DiagnosticSequenceCount	1	Decimal
▶ HARDY_5034_AENTR:1:I.Cmd	{...}	
▲ HARDY_5034_AENTR:1:I.Ch0	{...}	
HARDY_5034_AENTR:1:I.Ch0.ADConvertError	0	Decimal
HARDY_5034_AENTR:1:I.Ch0.ADFailure	0	Decimal
HARDY_5034_AENTR:1:I.Ch0.InMotion	0	Decimal
HARDY_5034_AENTR:1:I.Ch0.NVMWriteError	0	Decimal
HARDY_5034_AENTR:1:I.Ch0.CenterOfZero	0	Decimal
HARDY_5034_AENTR:1:I.Ch0.SavingToNVM	0	Decimal
HARDY_5034_AENTR:1:I.Ch0.CalibrationInProgress	0	Decimal
HARDY_5034_AENTR:1:I.Ch0.ParamIDNotFound	0	Decimal
▶ HARDY_5034_AENTR:1:I.Ch0.ScanCounter	10	Decimal
HARDY_5034_AENTR:1:I.Ch0.NetWeight	5034.0	Float
HARDY_5034_AENTR:1:I.Ch0.GrossWeight	5034.0	Float

Commands are entered into the output table to control the module:

e.g. Hexadecimal 66 (C2 Calibration) shown in the “CMD” tag

▲ HARDY_5034_AENTR:1:O	{...}	Hi:503
▶ HARDY_5034_AENTR:1:O.AuxCMD_Info	16#0000 Hex	INT
▶ HARDY_5034_AENTR:1:O.CMD	16#0066 Hex	INT

Command Number	Command
0	Read Parameter
1	Zero Cmd
2	Tare Cmd
(0x64) 100 dec	Cal Low Cmd
(0x65) 101 dec	Cal High Cmd
(0x66) 102 dec	C2 Cal Cmd
(0x80) 128 dec	IT Test
(0x94) 148	Set Default Parameters
(0x0100) 256 dec	IT Test Reduce
(0x0200) 512 dec	Stability Test
(0x1000) 4096 dec	Write Cmd
(0x10F0) 4336 dec	C2 Search

Command Echo and Status is returned via the Input Table:

e.g. CMD Echo and Status shown as 0000

▲ HARDY_5034_AENTR:1:I.Cmd	{...}	Hi:5034_WS_CmdResponse:I:0
▶ HARDY_5034_AENTR:1:I.Cmd.CMD_Echo	16#0000 Hex	INT
▶ HARDY_5034_AENTR:1:I.Cmd.CMD_Status	16#0000 Hex	INT

Each command may have different status returns. Refer to the manual for any status not found here.

Value	Status
0	Success
1	Fail
2	Fail - ADC Error - Check Sig +/- Wiring for 0-10mV
3	Fail - Zero Tolerance - Zeroed amount of weight exceeds zero tolerance.
4	Fail - Motion - Check Motion Tolerance Value, Check for Movement
5	Fail - No C2 Cells Found - Run C2 Search, Check C2 +/- Wiring
6	Fail - C2 Capacities Not Equal - Check C2 certs for matching weights
7	Fail - Non-Hardy C2 Chip - Contact Hardy Support
8	Fail - Hi/Lo weight signal too close for traditional calibration. (<100 counts)
11	Fail - Value too high. Exceeds parameter limit.
12	Fail - Value too low. Exceeds parameter limit.
13	Fail - Command not allowed.
128	Fail - Parameter ID not valid.

Reading Individual Parameters:

Individual parameters to read can be entered in the output table:

Configuration Parameters:	
Units	0x2881
Waversaver	0x2081
NumAverages	0x2082
ZeroTolerance	0x2886
AutoZeroTolerance	0x6302
AutoZeroState	0x6301
MotionTolerance	0x2887
SpanWeight	0x4182
RefWeight	0x4101
Gravity Correction	0x4102
Tare Weight	0x6183
Cal Year	0x4202
Cal Month	0x4203
Cal Day	0x4204

▶ HARDY_5034_AENTR:1:O.ParameterRD1_ID	16#0000	Hex	INT
▶ HARDY_5034_AENTR:1:O.ParameterRD2_ID	16#0000	Hex	INT

The parameter value will be returned via the input table:

▶ HARDY_5034_AENTR:1:I.Cmd.ParameterRD1	0	Decimal	DINT
▶ HARDY_5034_AENTR:1:I.Cmd.ParameterRD2	0	Decimal	DINT

NOTE: Floating point values may need to be converted from DINT to FLOAT with a COPY instruction.

Additional parameter IDs can be found in the manual.