

HI 4050 Programmer's Quick Reference

The Programmer's Quick Reference guide is intended to be a helpful and efficient reference tool for power users and technical personnel when interfacing with this Hardy product. It is not designed to replace the User's Guide.

User Guide Location:

http://www.hardysolutions.com/tenants/hardy/documents/Hi4050bk_Version_W.pdf

Online Unit:

<http://hi4050.hardysolutions.com/index.html>

Default IP Address:

192.168.200.123

PLC Setup:

Network Mapping Tips.

Short Out = 16 bit

Int Out = 32 bit (Will write into the PLC as 2 INT registers.)

Float Out = 32 bit (Will write into the PLC as 2 INT registers.)

The default data that is output is the gross weight into integers 0 and 1.

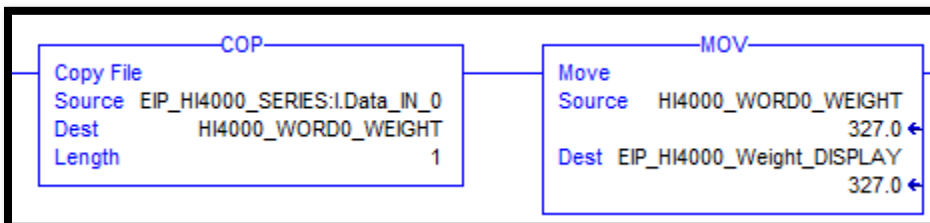
E.G.

+ EIP_HI4000_SERIES:I.Data_IN_0	0	Decimal	INT
+ EIP_HI4000_SERIES:I.Data_IN_1	0	Decimal	INT

DEFAULT WEIGHT MAPPING

A copy instruction with a length of 1 must be done to translate the INT data back into floating point format.

E.G.



COPYING 2 INTS TO 1 REAL

Configuration File:

Writing to the “C” (configuration) file does not change the parameters in the unit.

[-] EIP_HI4000_SERIES:C	{...}		_0102
[+] EIP_HI4000_SERIES:C.Enable_Disble	0	Decimal	DINT
[+] EIP_HI4000_SERIES:C.Units	0	Decimal	DINT
[+] EIP_HI4000_SERIES:C.Decimal_Point	2	Decimal	DINT
[+] EIP_HI4000_SERIES:C.Grads	0	Decimal	DINT
[-] EIP_HI4000_SERIES:C.Motion_Tolerance	10.0	Float	REAL
[-] EIP_HI4000_SERIES:C.Zero_Tolerance	10.0	Float	REAL

C: CONFIGURATION FILE

The configuration file only writes these parameters to the unit when it is enabled and the connection is cycled or a module reconfigure message is sent.

Mapping:

Select One Destination [HELP](#)

Instrument Setup:

Network:

Control:

Scratchpad:

Select Sources

Network:

Process Data:

Control:

Scratchpad:

MAPPING WEBPAGE

The “Destination” is where the information will go to from the “Source” that is chosen.

Both the source and destination can be internal or external to the unit.

By default, the floating point gross weight is mapped to the first 32 bits over all of the network types.

E.G. Ethernet/IP word 0 and 1.

AOP Setup:

Web Page. Input and output as 40 and 40. Instances are noted.

Key:	<input type="text" value="1481023"/>	Enter valid key to enable, "1" to disable
Bytes Input	<input type="text" value="40"/>	Output Assembly Instance 112 (0x70)
Bytes Output	<input type="text" value="40"/>	Input Assembly Instance 100 (0x64)
Bytes Configuration 0		Config Assembly Instance 150 (0x96)
<input type="button" value="Save Parameters"/>		

AOP DATA SIZES

Generic EIP Setup:

If set up as a GENERIC module, the data tables can have up to 256 words. Page 54 of the manual has more information. Instances and lengths are noted.

Step 3. You will have to set the following parameters on your PLC in order to communicate with the HI 4050:

- COMM FORMAT: SINT, INT, DINT, OR FLOAT. Recommended as DATA-INT
- INPUT INSTANCE 100, LENGTH 0-256
- OUTPUT INSTANCE 112 - LENGTH 0-256
- CONFIGURATION INSTANCE 150 - LENGTH 0

GENERIC MODULE DATA SIZES

The correct number of words must match between the PLC and in the unit.

MODBUS Setup:

See the User Guide on PDF Page 67. Use the Hardy Modbus tool on the webpage.