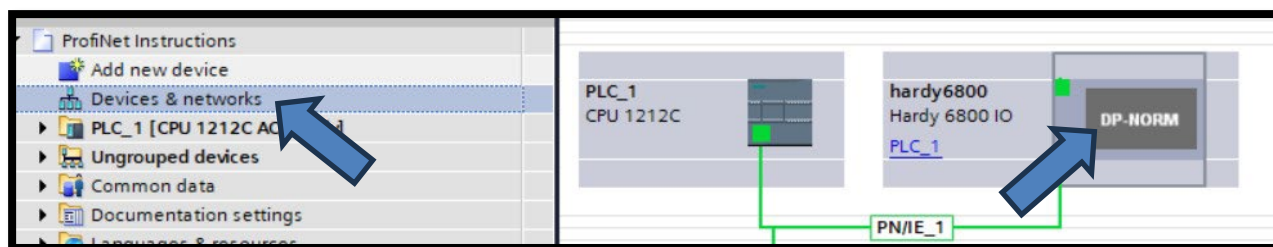


HARDY ProfiNet Programmer's Quick Reference

This document is designed to assist in reading weight readings and sending commands to ProfiNet enabled HARDY products through the Siemens TIA Portal program using input and output tables.

OPENING THE DEVICE OVERVIEW

Once the instrument is added (See the GSD file and instructions on the Hardy website) double click "Devices & networks" and double click the instrument to view the device overview.



SIEMENS INPUT AND OUTPUT COMMUNICATION TABLES

Once selected, the Input (I) and Output (Q) tables will be listed.

In this example, the input begins at byte 68 and the output begins at byte 1.

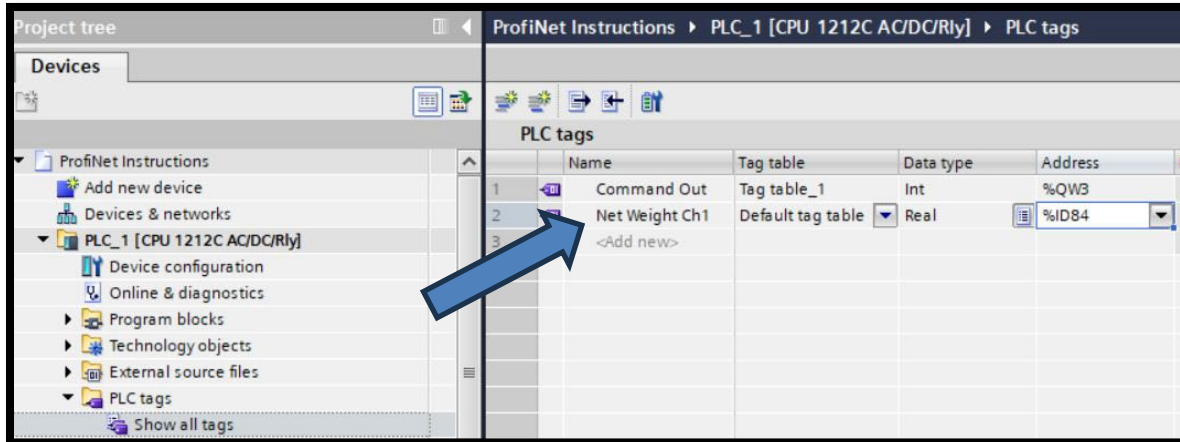
These tables correspond to the input and output tables shown in the instrument manual.

Module	Rack	Slot	I address	Q address	Type
hardy6800	0	0			hardy6800 IO
Interface	0	0 X1			hardy6800
256 bytes Input_1	0	1	68...323		256 bytes Input
256 bytes Output_1	0	2		1...256	256 bytes Output

CREATING TAGS

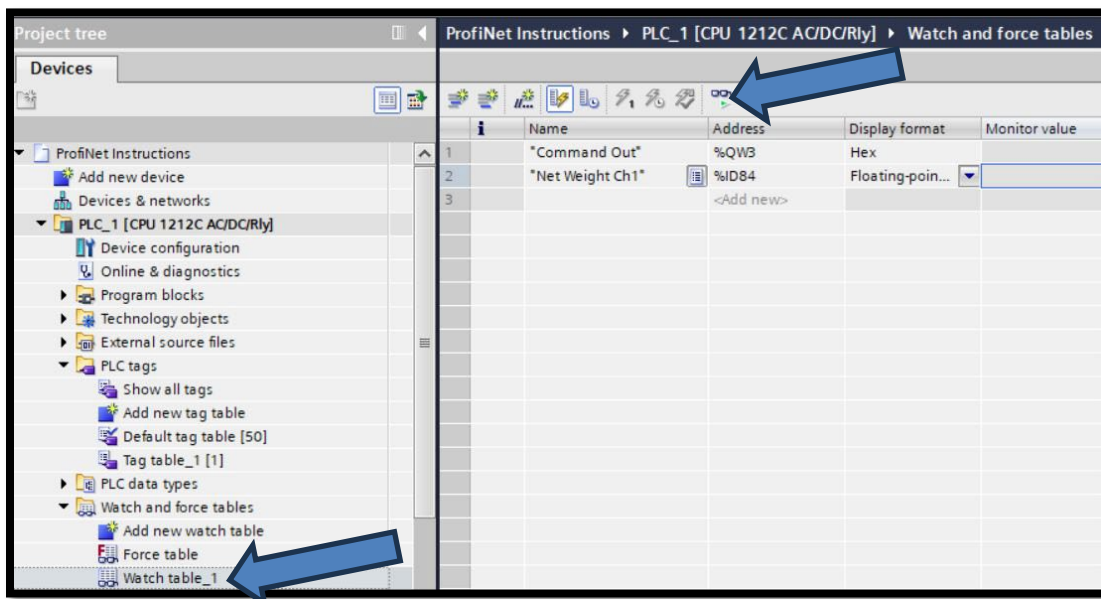
In this example, the weight would be a REAL originating from input byte 84.

NOTE: The HARDY tables in the example begin at byte 68 shown above.



USING THE WATCH TABLE FOR READING WEIGHT

Add the tags created in the example above to a watch table and click the play button to monitor.

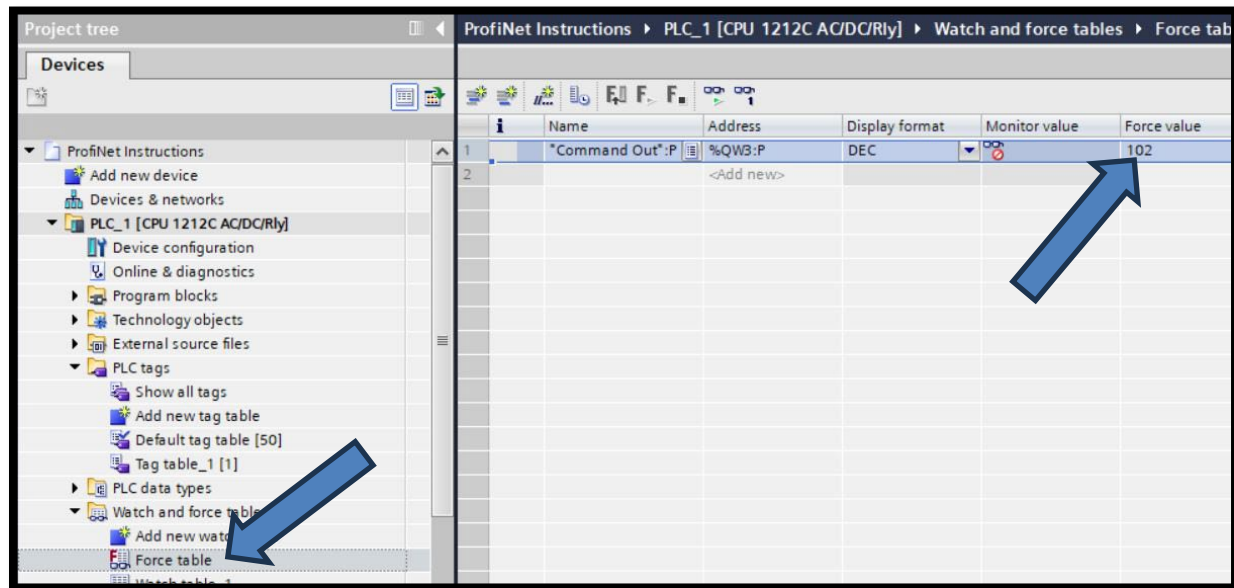


USING THE FORCE TABLE TO SEND A COMMAND

Sending a C2 Calibration command to output byte 3. (102 decimal, 66 in hex)

Refer to the manual for the complete list of commands.

IMPORTANT NOTE: A channel must be specified on the HI6850 series. See output tables.



EXAMPLE LIST OF COMMANDS

Refer to the manual for the complete list of commands.

IMPORTANT NOTE: A channel must be specified on the HI6850 series. See output tables.

Command Number	Command
(0x00)0	Read Parameter
(0x01)1	Zero Cmd
(0x02)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
(0x81) 129 dec	Stability Test
(0x82) 130 dec	IT Test (Reduced Voltage)
(0x83) 131 dec	C2 Search
(0x92) 146 dec	Write Value Command
(0x94) 148 dec	Set Default Parameters (all parameters except IP addresses)
(0x95) 149 dec	Set Default Network Parameters (IP addresses only)

HARDY INSTRUMENT INPUT AND OUTPUT TABLES

INT: 2 bytes/16 bits

DINT: 4 bytes/32 bits

REAL: 4 bytes/32 bits

Output to HARDY	Type	Quantity	Input From HARDY	Type	Qty
CHANNEL	INT	1	CHANNEL	INT	1
COMMAND	INT	1	COMMAND	INT	1
AUX COMMAND INFO	INT	1	CMD STATUS AND LIVE COUNTER	INT	1
PARAMETER ID	INT	1	PARAMETER ID	INT	1
PARAMETER VALUE	DINT	2	PARAMETER VALUE	DINT	2
RESERVED WORDS	INT	122	RESERVED	INT	1
			INSTRUMENT STATUS	INT	1
			NET WEIGHT CH1	REAL	2
			GROSS WEIGHT CH1	REAL	2
			RESERVED	INT	1
			CH2 STATUS	INT	1
			NET WEIGHT CH2	REAL	2
			GROSS WEIGHT CH2	REAL	2
			RESERVED	INT	1
			CH3 STATUS	INT	1
			NET WEIGHT CH3	REAL	2
			GROSS WEIGHT CH3	REAL	2
			RESERVED	INT	1
			CH4 STATUS	INT	1
			NET WEIGHT CH4	REAL	2
			GROSS WEIGHT CH4	REAL	2
			OPTION SLOT1 STATUS	INT	1
			OPTION SLOT2 STATUS	INT	1
			ROCA CH1	REAL	2
			ROCA CH2	REAL	2
			ROCA CH3	REAL	2
			ROCA CH4	REAL	2
			ROCA RESERVED	8 * INT	8
			RATE CONTROLLER	16 * INT	16
			RATE CONTROLLER RESERVED	8 * INT	8
			DOSING AND FILLING	8 * INT	8
			DOSING AND FILLING RESERVED	8 * INT	8
			CHECK WEIGHT	8 * INT	8
			CHECK WEIGHT RESERVED	8 * INT	8
			SETPOINT CONTROLLER	INT	1
			SETPOINT CONTROLLER RESERVED	8 * INT	8
			SEQUENTIAL BATCH	7 * INT	7
			SEQUENTIAL BATCH	8 * INT	8