

MANUFACTURER DOCUMENT PACKAGE

Manufacturer's Manual

Reference package for procurement and maintenance review

ALLEN-BRADLEY

1746-WS

SLC WEIGH SCALE MODULE

Used with the applicable Allen-Bradley SLC 500 configuration.

REFERENCE PACKAGE

OFFICIAL DOCUMENT

Selected official manufacturer pages follow this cover.

Source: Rockwell Automation manufacturer documentation

Table of Contents

TABLE OF CONTENTS	- I
TABLE OF ILLUSTRATIONS	- I
CHAPTER 1 - OVERVIEW	-1-1
A Brief Description of Chapter 1	-1-1
About Hardy Manuals	-1-2
Description	-1-2
C2® Calibration	-1-3
IT	-1-3
Weighing System Tests - Optional	-1-4
CHAPTER 2 - REQUIREMENTS	-2-1
General Introduction to Chapter 2	-2-1
Operating System Requirements	-2-1
Minimum Hardware Requirements	-2-1
Software Requirements	-2-1
RSLogix OR EQUAL (FOR REMOTE MODE OPERATION ONLY)	-2-1
CHAPTER 3 - INSTALLATION	-3-1
Installing the Hardy Instruments Configuration Software	-3-1
Installation of RSLOGIX	-3-1
Installation of RSLINX or RSLINX Lite	-3-1
Wiring Diagram for the HI 215IT Junction Box	-3-2
C2 Loadcell Cable Connection (J1)	-3-2
Non-C2 Loadcell Cable Connection (J1)	-3-3
CHAPTER 4 - SETUP	-4-1
A Brief Description of Chapter 4	-4-1
Presetup Procedures	-4-1
Setup Procedures	-4-3
Comm Setup for SLC Models (Except SLC 5/02)	-4-3
Comm Setup for the SLC 5/02	-4-5
Comm Setup for the HI 1746WS Remote Rack	-4-7
Legend	-4-7

Table of Illustrations

CHAPTER 3 - INSTALLATION	-3-1
FIG. 3-1 C2 LOAD CELL CONNECTION/HI 215IT JUNCTION BOX	-3-2
FIG. 3-2 NON C2 LOAD CELL CONNECTION/HI 215IT JUNCTION BOX	-3-3
CHAPTER 4 - SETUP	-4-1
FIG. 4-1 INTRO PAGE	-4-3
FIG. 4-2 COMM SETUP	-4-4
FIG. 4-3 REMOTE SELECTED/ENTER FILE#, STARTING WORD	-4-5
FIG. 4-4 SAMPLE OF REQUIRED LADDER LOGIC FOR INTEGER TYPE FILES SLC 5/02	-4-6
FIG. 4-5 CHECKING "USE INTEGER FILE. . ."/SLC 5/02	-4-7
FIG. 4-6 HI 1746WS REMOTE RACK LADDER LOGIC	-4-11
CHAPTER 5 - OPERATING PROCEDURES	-5-1
FIG. 5-1 LIVE WEIGHT PAGE	-5-1
FIG. 5-2 C2 CALIBRATION	-5-3
FIG. 5-3 HARD CALIBRATION	-5-4
FIG. 5-4 SOFT CALIBRATION	-5-5
FIG. 5-5 PARAMETERS SETTINGS	-5-6
FIG. 5-6 SETPOINT SCREEN	-5-8
FIG. 5-7 C2 SERIAL NUMBER SCREEN	-5-10
FIG. 5-8 REMOTE DISPLAY	-5-11
CHAPTER 6 - TROUBLESHOOTING	-6-1
FIG. 6-1 INTEGRATED TECHNICIAN TEST	-6-1

CHAPTER 1 - OVERVIEW

A Brief Description of Chapter 1

This manual provides the user and service personnel with a description of the specifications, installation, setup, operation, communication procedures for the Hardy Instrument's HI 100WS Configuration Software to configure the HI 1746-WS Weigh Scale Module, designed for use in Allen-Bradley's SLC 5/02[®], 5/03, 5/04, 5/05 programmable controllers. Chapter 1 provides a general introduction to the HI WS100 Configuration Software. The HI 100WS Software is C2[®] and INTEGRATED TECHNICIAN (IT)[®] enabled. The HI 100WS Software is designed to run on the Windows[®] 95/98/NT/2000 platforms in conjunction with Allen-Bradley's RS Linx[®] or RS Linx Lite[®] Industrial Programming Software for Windows[®] 95/98/NT/2000. To get the maximum service from this product, users should operate this software in accordance with recommended practices either implied or expressed in this manual. Before using the HI WS100 Software, all users and maintenance personnel should read and understand all cautions, warnings, and safety procedures, referenced or explicitly stated in this manual. Hardy Instruments appreciates your business. Should you not understand any information in this manual or experience any problems with the product, please contact our Customer Support Department at:

Phone: (858) 278-2900

FAX: (858) 278-6700

e-mail: support@hardyinst.com

Web Address: hardyinst.com

NOTE:

C2[®], INTEGRATED TECHNICIAN[®] are registered trademarks of Hardy Instruments Inc. Windows[®] is a registered trademark of the Microsoft Corporation.

RS Linx[®] and RS Linx Lite[®] SLC 500[®] are registered trademarks of the Rockwell Corporation.

NOTE:

Hardy Instruments bases all procedures on the assumption that the user has an adequate understand-

ing of all Allen-Bradley SLC 500 products. In addition the user should understand process control and be able to interpret ladder logic instructions necessary to generate the electronic signals that control your application(s).

About Hardy Manuals

Every Hardy Installation and Operation manual is organized into easily referenced chapters, that are almost always the same:

- **Chapter 1** - Provides an introduction to the instrument and an **Overview** of the equipment and its capabilities.
- **Chapter 2** - Provides a complete list of **Specifications**.
- **Chapter 3** - Contains information needed to install the HI 1746-WS (both standard and optional equipment) and the HI 215IT series Junction Box.
- **Chapter 4** - Provides complete hardware **Configuration** instructions for setting dip switches and jumpers.
- **Chapter 5** - Pertains to the firmware/software **Setup** and preparation procedures to calibrate and operate the instrument.
- **Chapter 6** - Provides all **Calibration** instructions.
- **Chapter 7** - Pertains to the **Operating Procedures** of the HI 1746-WS.
- **Chapter 8** - Pertains to the **Troubleshooting** procedures for repair of the instrument.

Hardy Instruments hopes that this manual meets your needs for information and operation. All corrections or suggestions for improvements of this manual are welcome and can be sent to the Technical Publications Department or Customer Support Department at Hardy Instruments Inc.

Description

The HI WS100 Configuration Software is a program that enables the user to configure a remote HI 1746-WS Weigh Scale Module. The HI 1746-WS Weigh Scale Module is a self contained microprocessor based I/O module with control inputs and outputs, that is designed to be easily plugged into the back plane of

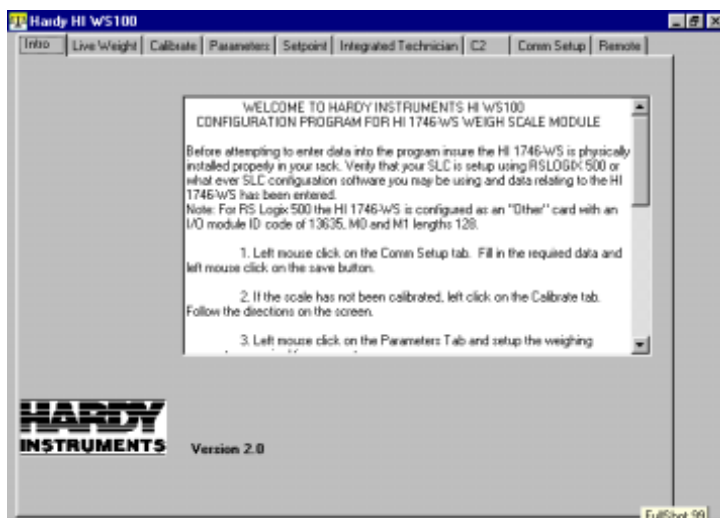


FIG. 4-1 INTRO PAGE

Setup Procedures

Comm Setup for SLC Models (Except SLC 5/02)

- Step 1. Click on the Comm Setup Tab. The Comm Setup Page appears. (See Fig 4-2)