

Static & Dynamic Check Weighing



Applications

PROCESS WEIGHING

- Static Check Weighing
- Dynamic Check Weighing
- Load Cells



Technology Partner
A ROCKWELL AUTOMATION PARTNER

Features

The Hardy Process Toolbox

The Hardy Process Toolbox is a set of productivity tools that support process weighing functions. Each tool saves time, increases accuracy, improves efficiency or reduces risk in process weighing applications.



- C2® and eCAL™ Electronic Calibration

Calibration in minutes, not days.

- WAVERSAVER®

Ignores vibration and noise on and around scales

- INTEGRATED TECHNICIAN®

Weighing system monitoring and troubleshooting



Hardy Insight:

Simple PLC Integration

Easy to configure and setup with a Rockwell Automation PLC with Rockwell EDS-Add-On-Profile

Give your Check Weighing an EDGE

We've done the math for you:

Your system produces 120 packs per minute with an uptime of 85% a year.

- Overfill is 2 grams per pack.
- Product cost of \$0.001 per gram.
- Overfill cost per year = \$107,222
- Reduction of just 1 gram overfill per pack = **\$53,611 savings per year.**

The high speed HI6850-DCWC check weighing instrument can process up to 250 weight measurements per second at high resolution (1:30:000). The HI6850-DCWC consists of a special version of the HI6850 weight controller with built-in check weighing firmware connected to up to eight analog load cells and a Hardy junction box. The HI6850-DCWC is perfect for building new systems for either static or dynamic check weighing or retrofitting the weight electronics of older, less reliable systems.

Hardy WAVERSAVER® and WAVERSAVER+ technology suppresses vibration and mechanical noise, dramatically reducing scale settling time and increasing the speed of stable gross and net weight readings. WAVERSAVER+ provides active filtering making weight readings fast, stable and accurate.

OPEN PLATFORM: Connect to your plant-wide system using standard protocols, including EtherNet/IP. It features a lower Total Cost of Ownership because it's simple to use, calibrate, integrate, and maintain.

A Rockwell EDS Add-On-Profile (EDS-AOP) makes it easy to configure with RSLogix.

AUTOMATIC EDGE DETECTION: Smart features of the HI6850-DCWC include EDGE detection, an algorithm that optimizes when weight readings are captured:

- Automatic EDGE detection starts weight processing the instant a load settles onto the scale by monitoring changes in the signal waveform from connected load point.
- Also works in conjunction with additional external sensors such as photo-eyes to optimize process timing of weight readings.

Connect the HI6850-DCWC to up to eight ADVANTAGE® load points and a Hardy IT junction box for high speed, high resolution weight readings compatible with C2 calibration.

AUTO CHECKWEIGH MODE: Allows seamless checkweigh operation without the need for adjustment timers or photo eyes.

COMPLETE YOUR HARDY SYSTEM

Hardy Bench Scales, Floor Scales and Load Points

Hardy carries a wide variety of strain gauge load points and scale bases to meet your application requirements.



ADVANTAGE Series
Load Point with
C2 Calibration



Hardy HIBSX
Bench Scales

Weighing Instruments Dedicated to Your Applications

Controllers, Weigh Modules, Weight Processors

Allen-Bradley®
Compatible
Plug-in Weigh
Scale Modules



HI6000 &
HI6800 Series
Models



Scan for More Information



SPECIFICATIONS

Display

- 7 inch, 100x165mm color TFT Touch Screen

Averaging

- Sliding up to 250 readings in single unit increments

Standard Interfaces

- Dual port ethernet with embedded web server
- Ethernet IP: Standard

Stable Weight Reading

- WEVERSAVER® 0.25Hz - 7.5 Hz

Calibration Techniques

- C2® electronic calibration
- Traditional calibration with test weights

Units of Measure

- lb, oz, ton, kg, g, mt

Mode

- Auto, Weight, Photoeye

Load Point Excitation

- 5VDC power drives up to eight 350-ohm load cells

Digital I/O

- Application control inputs
- 24VDC

Analog I/O

- Speed Control Output
- 4-20mA

Power Requirement

- AC: 110-240VAC, 47-63Hz
- DC: 24VDC
- 10 watts max

Operating Temperature

- -10° to +40°C (14° to 104°F)

Storage Temperature

- PM: -30° to +70°C (-22° to 158°F)
- DR: -40° to +85°C (-40° to 185°F)

Enclosure

- Panel/remote mount
- DIN mount (blind)
- Wall mount

Dimensions

- Display: 7.30 in L x 0.70 in W x 4.60 in H (185.4 mm x 17.8 mm x 116.8 mm)
- Housing: 6.15 in L x 4.08 in W x 3.36 H (156.2 mm x 103.5 mm x 82.8 mm)

Approvals

- CE, UL Ordinary and Hazardous C1D2

Compliance

- RoHS3 & REACH

Warranty

- Two-year warranty against defects in workmanship and materials.

MODEL NUMBERS

HI6850-DCWC

-DR	DIN Rail (no display)
-PM2	Panel Mount with 7" display
-PMWS2	Panel Mount Wall System with 7" Display
-AC	AC Power 110-240VAC, 47-63Hz
-DC	DC Power 24 Volts Nominal

NETWORK OPTIONS

-N1	No Auxiliary Option in Slot 1
-PFNC	PROFINET Communications Card
-GPIO	General Purpose I/O Card (Required)
-NSC	No Summing Card
-IT1	HI6020 IT Card



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