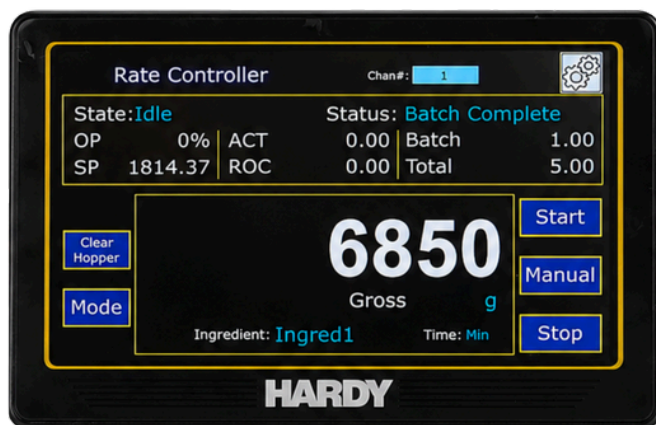


Continuous Material Feed Controller



Applications

PROCESS WEIGHING

- Gravimetric Feeding
- Continuous and Batch Rate Control
- Primary / Secondary



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.



PROCESS TOOLBOX
C2 eCAL IT

- 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



Advantages

- Automatic Closed Loop Control

Continuously adjusts feeder to deliver desired feed rate

- Graphics Display Mode

Graphs actual feed rate vs. setpoint or operation percentage output

- Automatic Refill

Starts and stops refilling without interrupting the feeding of material

Used in new applications, or to retrofit volumetric feeders or replace outdated controllers in gravimetric systems, Hardy's HI6850-CMFC controls many feeding devices, such as auger, vibratory and belt-based feeders, as well as your proprietary designs.

MULTIPLE FEEDER CONTROL

The HI6850-CMFC is a powerful building block for multiple feeder systems. It can operate as a primary controller for multiple connected controllers or as a secondary unit integrated with other HI6850s or additional process inputs. Multiple DIN-rail HI6850-CMFCs can be managed from a common host computer or programmable controller.

WHAT'S NEW WITH HI6850-CMFC

The HI6850-CMFC delivers significant advancements over the legacy HI4060, including a powerful dual-core processor for faster performance, vibration immunity for greater reliability, dual Ethernet ports for enhanced connectivity, intuitive instrument mapping for simplified setup and diagnostics, and a modern color touchscreen display that makes operation and configuration easier than ever.

AUTOMATIC WEIGHT AND RATE CALIBRATION

A five-point auto rate calibration automatically allows the HI6850-CMFC to calibrate itself to the feed characteristics of the feeder and the material being fed. This allows for a higher feed accuracy over a broader range of feed rates.

MULTIPLE CONFIGURATION STORAGE

The HI6850-CMFC lets you store set-up and calibrations in hundreds of dedicated, on-board memory locations, for easy and fast configuration retrieval and change. Configurations are also automatically stored in the Secure Digital Memory Module (SMM-SD) card, letting you easily transfer data from one instrument to another, or view that data on your PC.

EASE OF SET-UP

You can quickly access menus to set up process weight and rate parameters from the controller's front panel keys and LCD display. The HI6850-CMFC's embedded web server also gives you remote access to control information and instrument parameters. The rate controller will watch your process and notify you of problems. Display Prompts and alarm relay outputs occur with tolerance errors and other failure. By entering specific control parameters, you decide at which levels to alarm or shut down the application. You can also assign three different security levels to each function.

MODULARITY AND EASE OF INSTALLATION

Configure your HI6850-CMFC to suit your specific application:

- With or without display
- EtherNet/IP, Modbus TCP/IP,
- Panel, DIN-rail, remote or wall mount
- Either AC or DC power

Just drill or punch standard holes in your panel and attach the front panel keyboard display.

The rate controller housing can be attached to the rear of the panel or remotely, up to 100 feet away to a DIN rail.

CORE TECHNOLOGIES

WAVERSAVER® ignores vibration and mechanical noise in feeders and the plant environment. C2® electronic calibration enables fast, accurate, electronic calibration of your system, saving start-up costs and aggravation. Used in conjunction with an IT Junction Box, INTEGRATED TECHNICIAN® (IT) allows you to troubleshoot and diagnose your weighing system right from the instrument's front panel or a web browser. You can read individual load sensor voltages and weights, make comparisons, and isolate individual system components.

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

Totalizer

- Keeps track of the amount of ingredient dispensed

Standard Interfaces

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

Stable Weight Reading

- WAVESSAVER® 0.25Hz - 7.5 Hz

Calibration Techniques

- C2® electronic calibration
- Traditional calibration with test weights

Time Units

- Seconds, minutes and hours

Units of Measure

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

Mode

- Batch, continuous, manual, automatic

Load Point Excitation

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

Digital Inputs

- Eight configurable, non-isolated

Analog Input

- Allows rate setpoint to be adjusted by an external analog input
- 4-20mA

Control Output (1)

- User selectable
- 4-20mA

Analog Outputs (3)

- Transmits weight or actual rate
- 4-20mA, 0-5VDC or 0-10VDC

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/CUL

Compliance

- RoHS3 & REACH

Warranty

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

All information within is subject to change without notice. Visit our website for latest specifications. WAVESSAVER, C2, IT, ADVANTAGE and ANY-WEIGH are registered trademarks of Hardy Process Solutions, Inc. Allen-Bradley, CompactLogix, MicroLogix and Technology Partner are trademarks of Rockwell Automation, Inc. All other trademarks or registered trademarks are the property of their respective owners. Please contact the Hardy factory or visit our website for the latest specifications.

MODEL NUMBERS

HI6850-CMFC

-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



HARDY
PROCESS SOLUTIONS
Measurement • Automation • Productivity

Hardy Process Solutions

10075 Mesa Rim Rd

San Diego, CA 92121

Sales: +1-858-278-2900

Support: +1 858-292-2710

www.hardysolutions.com

hardyinfo@hardysolutions.com



HI6850-CMFC Rev. X XXXXX