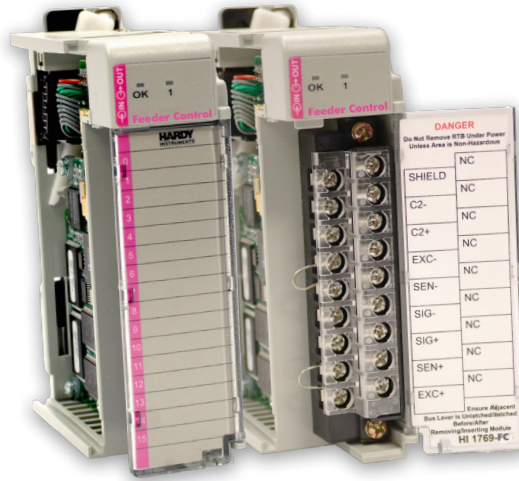


Weigh Feeder Control Module

Applications

PROCESS WEIGHING

- Gravimetric Feeding
- Continuous and Batch Rate Control



SILVER
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[®] Electronic Calibration

- Electronic calibration without test weights



WAVERSAVER[®]

- Ignores vibration on and around scales

INTEGRATED TECHNICIAN[®] (IT)

- Weighing system monitoring and troubleshooting



The HI 1769-FC Feeder Controller module is a self-contained, microprocessor-based CompactLogix™ and MicroLogix™ 1500 I/O solution that automatically calculates and adjusts tuning parameters typically required to maintain desired flow rates in a dispensing or filling system. It is used in a variety of material-flow applications, such as auger, belt, and vibration-based feeders. It can be operated in batch, automatic, or manual mode.

Algorithms contained in the HI 1769-FC compare user defined flow rates to the actual flow rates by continuously monitoring changes in the system weight over short intervals of time; the 1769-FC then calculates the adjustments necessary to achieve the user defined rate and instructs the PLC to adjust the speed of the feeding or dispensing device.

The 1769-FC updates 100 times per second and is capable of 8,388,608 counts of resolution, enabling the instrument to precisely determine target flow rates and tolerate large “dead” loads in a weigh system.

WORRY-FREE OPERATION

The HI 1769-FC feeder control module will watch your process and notify you of problems. Prompts on your system’s HMI display and PLC alarm relay outputs occur with tolerance errors and other failures. By entering specific control parameters, you

decide at which levels to alarm or shut down the application.

AUTOMATIC WEIGHT AND RATE CALIBRATION

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

Advantages

Direct Backplane to the Allen-Bradley[®] CompactLogix™ and MicroLogix™ 1500 PLC

- Reduce installation time and system costs with no need for external wiring

Automatic Closed Loop Control

- Continuously adjusts feeder to deliver desired feed rate

Rockwell CompactLogix and MicroLogix 1500 Add-On Profile

- Quick and easy configuration for your application through PLC software on PC

Automatic Refill

- Starts and stops refilling without interrupting the feeding of material

COMPONENTS TO 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 accommodate your application requirements.



ADVANTAGE Series Load Point with C2 Calibration



Hardy Bench Scales

Weighing Instruments Dedicated to Your Applications

Controllers, Weigh Modules, Transmitters

Allen-Bradley® Compatible Plug-in Weigh Scale Modules



HI 3000 Series HI 4000 Controllers and HI 6000 Series



SPECIFICATIONS

Power

- Provided from the backplane of the rack
- +5Vdc

Backplane Current

- < 1 Amp @ 5Vdc 5W

Totalizer

- Keeps track of the amount of ingredients dispensed

Time Units

- Seconds, minutes and hours

Units of Measure

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

Mode

- Batch, continuous

Inputs

- Signal: -0.3mV through +15.3mVdc
- Sense: + 5Vdc
- C2 Electronic Calibration

Outputs

- Excitation 5Vdc

Common Mode Rejection

- 120dB from 59 to 61Hz

Resolution

- Internal, 1:8,388,608

Conversion Rate

- 100 updates per second

Averages

- 1-255 user selectable in single increments

Vibration Frequency Rejection

- WAVERSAVER®
- 0.25 Hz and above in 5 selectable steps, and OFF

I/O Chassis Location

- Any single I/O chassis slot

Environmental Conditions

- Operating Temperature: 0 to 60°C (32 to 140°F)
- Storage Temperature: -40 to 85°C (-40 to 185°F)

Relative Humidity

- 5 to 95% (non-condensing)

Weighing Modes

- Net, Gross

Calibration

- Electronic (C2)
- Traditional (test weights)

Weight

- 0.61 lb (0.27kg)

Indicators

- "OK", Module Status, LED
- "Scale 1", Functional Data, LED

Certifications

- UL/CUL/CE, RoHS & REACH Compliant

Hazardous Location

- Class I, Div 2 Groups A,B,C,and D

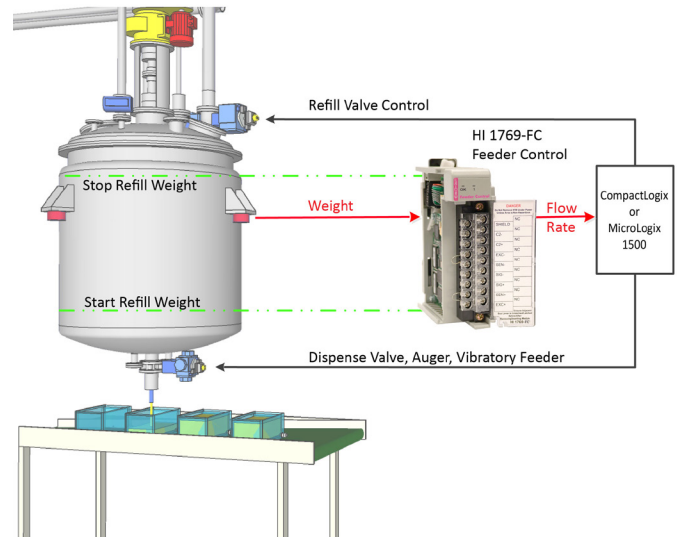
Warranty

- Two-year warranty against defects in workmanship

All specifications subject to change without notice. Please contact the Hardy factory or visit our website for the latest specifications.

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APPLICATION



MODELS AND OPTIONS

HI 1769-FC-RTA-C6	Single-scale weigh feeder control module with remote termination assembly and cable
HI 1769-FC	Single-scale weigh feeder control module alone
HI 1769-XX-RTA	Remote termination panel alone
HI 1769-XX-C6	Single-scale 6-foot (1.8m) cable alone

Get more information about the HI 1769-FC at

www.hardysolutions.com
hardyinfo@hardysolutions.com
 or 1-800-821-5831

HARDY
PROCESS SOLUTIONS
 Measurement • Automation • Productivity

Hardy Process Solutions

10075 Mesa Rim Road

San Diego, CA 92121

tel. +1-858-278-2900

tel. 800-821-5831

www.hardysolutions.com

hardyinfo@hardysolutions.com



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 0400-0016-01D