

## PROCESS WEIGHING Applications

- Inventory Measurement
- Level Measurement
- Batching/Blending
- Filling/Dispensing/  
Dosing
- Check Weighing



Connect, view and control  
one to four instruments  
on one display panel



## Features

### THE HARDY PROCESS TOOLBOX

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



**Electronic calibration without test weights**

**C2<sup>®</sup> eCAL<sup>™</sup>**

**Weighing system monitoring, diagnostics and troubleshooting**

**IT<sup>®</sup> INTEGRATED  
TECHNICIAN**

**Vibration immunity from mechanical noise**

**WAVERSAVER<sup>®</sup>**

**Easy to configure and setup with  
a Rockwell Automation PLC  
Rockwell Add-on-Profile**

*HI 6500 series are EtherNet/IP<sup>®</sup> enabled weight processors with a Rockwell Add-On-Profile. They have a big, bright multi-channel display and deliver fast, high-resolution weight readings. They also feature alternative communication options. Weight processors are used as front ends to control systems or standalone for all types of general weighing applications. They measure, condition and communicate weight without any need to control.*

### SOLID PERFORMANCE

The HI 6500 series delivers stable processed rate with a resolution of 1:10:000, and an update speed of 110 updates per second (processor, display and comm.). They enhance the productivity of process manufacturing systems where fast, precise weight-based controls are critical. They offer you many communication choices including EtherNet/IP, Modbus TCP & RTU, and Analog 4-20mA.

### INSTALLATION YOUR WAY

For panel mounting, simply drill five holes to mount the keypad/ display on the front and the instrument to the other side. For blind or remote mounting, just snap its built-in clip onto a DIN rail or mount on a wall. The HI 6500 series fits in a 2" deep cabinet!

### EASY TO READ

For maximum visibility and usability, the HI 6500 series features a big, rugged high-contrast display with a 140 degree viewing angle for easy reading at a distance. Discrete status messaging means there is no need to check a manual for error codes or instructions.

### MULTI-CHANNEL DISPLAY

To save space and energy, the HI 6500 series can deliver the weight readings of up to four instruments on one big, bright display panel simultaneously! Name your display inputs for easy ID and rearrange them in any order.

### LOW POWER CONSUMPTION

Each instrument consumes just 5 watts nominal and 7 watts max, saving energy costs while driving up to 8 load points. Share a keypad/ display with four instruments and save 1.5 watts more per blind unit.

### EASE OF SET-UP & CALIBRATION

A set-up wizard guides you through installation and calibration, or use the embedded web server to set up parameters from anywhere on your network. Front panel keys and simple menus enable quick, easy setup with supporting help text. Use Hardy's exclusive C2<sup>®</sup> for automatic system calibration, which saves hours of start-up and maintenance time. A Rockwell Add-On-Profile makes PLC setup fast and easy.

### INTEGRATED TECHNICIAN<sup>®</sup>

Quickly and easily troubleshoot the weighing system from the front panel of the display or connected control system using Hardy's proprietary IT built-in system diagnostics.

### VIBRATION IMMUNITY

Hardy's WAVERSAVER<sup>®</sup> technology suppresses vibration and mechanical noise, dramatically reducing scale settling time and increasing the speed of stable gross and net weight readings.

## 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



ANY-WEIGH  
Scales

### Weighing Instruments Dedicated to Your Applications

Controllers, Weigh Modules,  
Transmitters

Allen-Bradley® Compatible  
Plug-in Weigh Scale Modules



HI 3000 & HI 4000  
Controllers and  
HI 6000 Series



## SPECIFICATIONS

### Performance:

#### Resolution

- Stable processed weight 1:10,000
- Maximum displayed resolution: 1:999,999
- Internal resolution 1:8,388,608

#### Update Rate

- Processed weight, display, communications: 110 times per sec.
- Unprocessed weight (A/D conversion): 4800 times per second

### Modes:

- Gross, Net, Piece Count

### Units of Measure:

- Ounce, Pound, Ton, Gram, Kg, Metric Ton, Pieces

### Weight Processing

- WAVERSAVER®: .25 Hz to 7.5 Hz
- Averaging: 1 to 255 User-selectable in single increments

### Display:

- 80:1 contrast ratio with 4.3" effective viewing area
- 140° viewing angle

### Multi-channel Display:

- Control configure, and view one to four instruments on a single front panel (up to 3 blind and one with a display)

### Calibration Methods:

- C2® calibration without test weights
- Traditional calibration with test weights

### Excitation:

- 5VDC

### Number of Load Cells:

- Up to 8 at 350 Ω

### Keypad:

- 5-Button Tactile

### Mounting:

- DIN, low profile, panel, wall

### Communications:

- EtherNet/IP (-EIP models)
- Ethernet UDP
- Ethernet TCP/IP (Embedded Webserver)
- Modbus RTU
- Modbus TCP (-EIP models)
- Analog 4-20mA (HI 6510 models)
- Profibus-DP (-PB models)

### Communication Interface:

- Terminal, RJ-45
- USB setup and configuration saving

### Power:

- 12-27 VDC
- 5 watts nominal with display
- 7 watts max with two IT junction boxes and 8 load points



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### Temperature:

- -10°C to +60°C (14° F to 160°F)

### Humidity:

- 0-90% non-condensing

### Dimensions:

- 7" W x 3"H x 2 1/4" D (18 cm x 7.6 cm x 5.7 cm)

### Certifications pending:

- Hazardous: Class I, II, III/Div2
- Safety: UL & CUL pending
- EtherNet/IP ODVA Certification Level 3

### Warranty:

- Two-year warranty against defects in workmanship

## MODEL NUMBERS

### HI 6500 SERIES

|                  |   |
|------------------|---|
| HI6500-WP-00-EIP | EtherNet/IP configuration, no display   |
| HI6500-WP-10-EIP | EtherNet/IP configuration, with display |
| HI6500-WP-00-PB  | Profibus-DP configuration, no display   |
| HI6500-WP-10-PB  | Profibus-DP configuration, with display |
| HI6510-WP-00-EIP | Analog & EtherNet/IP, no display        |
| HI6510-WP-10-EIP | Analog & EtherNet/IP, with display      |
| HI6510-WP-00-PB  | Analog and Profibus-DP, no display      |
| HI6510-WP-10-PB  | Analog and Profibus-DP, with display    |

Get more information about  
the HI 6500 Series at

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[hardyinfo@hardysolutions.com](mailto:hardyinfo@hardysolutions.com)  
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**HARDY**  
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**ISO 9001:2008**  
**CERTIFIED**  
Since 1993