

# PROCESS WEIGHING Applications

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



Stable, High Resolution: 1:30,000 Extremely Fast: 660 Updates Per Sec.



### 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 application



risk in your process **PROCESS TOOLBOX** weighing applications.

Electronic calibration without test weights



Weighing system monitoring, diagnostics and troubleshooting

TINTEGRATED<sup>®</sup>

Vibration immunity from mechanical noise

# WAVERSAVER®

Easy to configure and setup with a Rockwell Automation PLC Rockwell Add-on-Profile HMI Faceplate/AOIs Hardy HI 6500-XP Extreme Processor Series are EtherNet/IP® enabled weight processors that deliver extremely fast, stable, high-resolution weight readings to your control system. Easy to set-up using a Rockwell Add-On-Profile, HMI Faceplate/AOIs, or Hardy's user-friendly Set-Up Wizard, the XP Extreme Processors feature a patent-pending adaptive filter to suppress noise, multiple communication options, and an optional big, bright, display. XP Extreme Processors are used as front ends to control systems or as standalone weight indicators for all types of applications.

### SOLID PERFORMANCE

The HI 6500-XP Extreme Processor Series delivers stable processed weight with *a resolution of 1:30:000*, and a *speed of 660 updates per second* (processor, display and communications). HI 6500-XP enhances the productivity of process manufacturing systems where extremely fast, precise weight-based controls are critical, such as continuous batch processing or filling applications. 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 back. 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!

#### BRIGHT MULTI-CHANNEL DISPLAY

For maximum visibility and usability, the HI 6500-XP Extreme Processor Series features a

big, rugged high contrast display with a 140 degree viewing angle for easy reading at a distance. Discrete status messaging makes it easy to use! To save space and energy, the HI 6500-XP series can deliver the weight readings of up to four instruments simultaneously on one display panel! Name your display inputs for easy ID and rearrange them in any order.

#### LOW POWER CONSUMPTION

**HI 6500-XP Extreme Processor Series** 

Weight Processors

Each instrument consumes just 5 watts nominal and 7 watts max, saving energy costs while driving up to 8 load points.

#### 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 menus enable quick, easy setup with useful help text. Use Hardy's exclusive  $C2^{(\mathbb{R})}$  for automatic system calibration, saving hours of start-up and maintenance time. An EDS-AOP and HMI Faceplate/AOIs makes PLC setup fast and easy.

#### INTEGRATED TECHNICIAN®

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 supresses 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 stable and accurate.

## **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.



## **Weighing Instruments Dedicated to Your** Applications

Controllers, Weigh Modules, **Transmitters** 

> Allen-Bradley® Compatible Plug-in Weigh Scale Modules







# **SPECIFICATIONS**

#### Performance: Resolution

- Stable processed weight 1:30,000
- Maximum displayed resolution: 1:999,999
- Internal resolution 1:8,388,608

### Update Rate

- Processed weight, display, communications: 660 times per sec.
- Unprocessed weight (A/D conversion): 4800 times per second

### <u>Modes:</u>

Gross, Net, Piece Count

# Units of Measure:

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

## Weight Processing

 WAVERSAVER<sup>®</sup>: .25 Hz to 7.5 Hz
WAVERSAVER<sup>®</sup>: Patent pending dynamic filtering improves static weight readings by a factor of 3X

 Averaging:1 to 255 User-selectable in single increments Display:

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

### 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<sup>®</sup> 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
- Modbus RTU
- Modbus TCP (-EIP models)
- Analog 4-20mA (HI 6510 models)

### **Communication Interface:**

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



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### Power:

- 12-27 VDC
- 5 watts nominal with display
- 7 watts max w/ 2 IT junction boxes and 8 load points

### Temperature:

-10°C to +50°C (14° F to 122°F)

### Humidity:

• 0-90% non-condensing

### Dimensions:

• 7" W x 3"H x 2 ¼" D (18 cm x 7.6 cm x 5.7 cm)

### Certifications:

- Hazardous: Class I, II, III/Div2
- Safety: UL/CUL. RoHS and REACH Compliant
- EtherNet/IP ODVA Certification Level 3

### Warranty:

• Two-year warranty against defects in workmanship

### MODEL NUMBERS HI 6500-XP SERIES

HI6500-XP-00-EIP	EtherNet/IP configuration, no display
HI6500-XP-10-EIP	EtherNet/IP configuration, with display
HI6510-XP-00-EIP	Analog & EtherNet/IP, no display
HI6510-XP-10-EIP	Analog & EtherNet/IP, with display

### Get more information about the HI 6500-XP Series at www.hardysolutions.com hardyinfo@hardysolutions.com or 1-800-821-5831



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