HARDY
PROCESS SOLUTIONS
Measurement ▪ Automation ▪ Productivity

HI 6500-XP Extreme Processor Series
Weight Processors

PROCESS WEIGHING

Applications

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

HI6510-XP   Ver. 1.2.25.0
6500
Gross   g
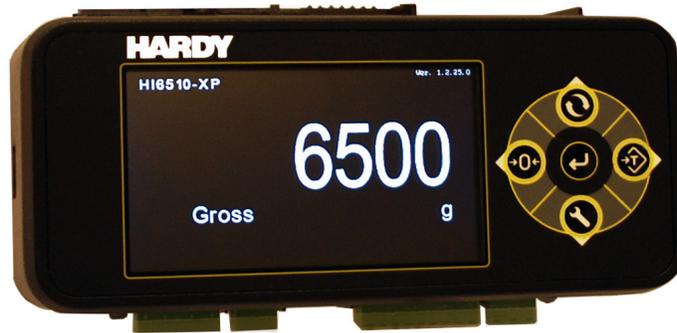
**Stable, High Resolution: 1:30,000
Extremely Fast: 660 Updates Per Sec.**

Rockwell Automation
Encompass™
Product Partner
Global

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.

PRODUCTIVITY
HARDY
PROCESS TOOLBOX

Electronic calibration without test weights

C2® **eCAL**™

Weighing system monitoring, diagnostics and troubleshooting

IT **INTEGRATED TECHNICIAN**®

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, Profibus-DP 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
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® 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® 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.

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

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
- WAVERSAVER®+: 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° 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
- 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 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 SERIES

Model	Description
HI6500-XP-00-EIP	EtherNet/IP configuration, no display
HI6500-XP-10-EIP	EtherNet/IP configuration, with display
HI6500-XP-00-PB	Profibus-DP configuration, no display
HI6500-XP-10-PB	Profibus-DP configuration, with display
HI6510-XP-00-EIP	Analog & EtherNet/IP, no display
HI6510-XP-10-EIP	Analog & EtherNet/IP, with display
HI6510-XP-00-PB	Analog and Profibus-DP, no display
HI6510-XP-10-PB	Analog and Profibus-DP, 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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CERTIFIED ISO 9001:2015 COMPANY

HI 6500-XP Series 09/18
0400-6500XP Rev. C