HARDY
PROCESS SOLUTIONS
Measurement ▪ Automation ▪ Productivity

HI5034-WS
Weight Processing Module

For the **NEW** Rockwell Automation® PointMax™ I/O Platform

PROCESS WEIGHING
Applications

- *Batching/Blending*
- *Filling/Dispensing*
- *Product Inspection*
- *Set-point Control*
- *Level Measurement*

RA Technology Partner
A ROCKWELL AUTOMATION PARTNER

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®

Weighing system monitoring, diagnostics and troubleshooting

IT INTEGRATED TECHNICIAN®

Vibration immunity from mechanical noise

WAVERSAVER®

Easy to configure and setup

Add-on-Profile & FacePlate

The HI5034-WS weigh scale module features powerful digital signal processing combined with a 24-bit sigma-delta (∑-Δ) analog-to-digital converter (ADC). The HI5034-WS delivers accurate, fast and stable weight data for control systems in even the most adverse conditions where noise and mechanical vibration plague process control.

Designed to plug directly into Rockwell Automation® PointMax™ I/O adaptors, Hardy's HI5034 scale module improves system performance by serving as a co-processer to the control system, delivering post-processed (filtered) weigh data at a rate of 125 updates per second directly to the adaptor backplane.

REDUCE TIME TO COMMISSION
Benefit from tight integration of a scale system by using Add-On-Profiles, Add-On-Instructions and Faceplates available from Hardy and native to Studio5000 Logix Designer®. Industries such as Chemical, Food & Beverage, Life Sciences, Metals & Mining, Aerospace, Oil & Gas, and Plastics benefit from the Hardy Productivity Toolbox – C2® calibration and Integrated Technician® scale diagnostics – enabling a proactive maintenance strategy and troubleshooting with the touch of a button.

SIMPLE SET-UP & CALIBRATION
Use load sensors with Hardy's exclusive C2® Calibration for automatic scale system calibration saving hours in commissioning and routine maintenance. By reading the calibration certificate embedded electronically in C2 sensors, the weigh scale system can be calibrated with the touch of a button.

MAINTENANCE & DIAGNOSTICS
For quick and easy troubleshooting, the HI5034 scale modules feature built in diagnostics that include 3 LEDs per module that indicate Plug-In-Module and weigh scale status. With Integrated Technician®, the module monitors and troubleshoots the weighing system by diagnosing individual sensors without the need to disconnect.

SIMPLIFIED ARCHITECTURE

PREMIER INTEGRATION

NATIVE BACKPLANE I/O

SPECIFICATIONS

Performance:

Resolution
- Stable processed weight 1:10,000
- Internal resolution 1:8,388,608
- Update rate to backplane: 125 times per second
- A/D conversion rate: up to 4800 times per sec

Number of Load Cells:
- Up to 8 350 Ω

Modes:
- Gross, Net

Units of Measure:
- Ounce, Pound, Ton, Gram, Kg, Metric Ton

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

Calibration Methods:
- C2® calibration without test weights
- Traditional calibration with test weights

Output:
- Excitation 5VDC

Inputs:
- Signal, -0.3 mV to +15 mV
- Sense, +5 Vdc
- C2® Electronic Calibration

Mounting
- Directly to Backplane
- Recommended Terminal Base Cat#5034-RTB18 (RTB Screw)

Backplane Ratings:
- MOD Power: 3.3 VDC, 60 mA
- SA Passthrough Max: 24 VDC@ 58 mA

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

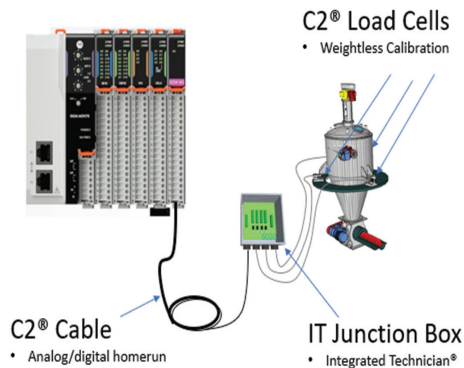### Humidity:
- 5-95% non-condensing

Certifications:
- Safety: UL & CUL, CE
- Environment: RoHS3 and REACH Compliant
- Hazardous: Class I, II, III/Div2

Warranty:
- Two-year warranty against defects in workmanship

Parts of a Complete System

C2® Load Cells
- Weightless Calibration

C2® Cable
- Analog/digital homerun

IT Junction Box
- Integrated Technician®

Hardy Part Number: HI5034-WS
Rockwell Automation Part Number: 5034-WS-HI

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CERTIFIED
ISO 9001

BUREAU VERITAS

HI5034-WS Series 06/25
0400-5034 RevA