

5511 Heavy-Duty MDR Checkweigher



Accurate, Durable and Dependable

The 5511 Heavy-Duty MDR Checkweigher delivers consistent performance for your in-motion package weighing needs. It offers one of the most rugged and durable conveyor and scale designs on the market, and gets the job done no matter if your application is bagged concrete or a fast-paced order fulfillment operation.

Simple to use with sophisticated features. The 5511 Heavy-Duty MDR Checkweigher requires little technical skill or training to use, yet provides critical in-line Quality Control by weight needed for your packaging line. Sophisticated features include data output in a variety of protocols, the ability to remotely change from one recipe to another, options for data logging and reporting are only a few of the features you can use to integrate the 5511 Heavy-Duty MDR Checkweigher into your application.

Conveyor

The 5511 Heavy-Duty MDR Checkweigher is equipped with a formed slider bed conveyor design, powder coated to offer years of durable operation, and is powered by a compact 3 phase motorized drive roller for a low-profile conveyor design. Variable speed controls by you, your integrator or TSC give you the ability to change speeds to meet the needs of your package sizes and rates. Our “V-guided” belt design reduces belt tension needed for tracking, increasing conveyor durability and reducing wear and maintenance on the conveyor.

Controls

Color Touch Screen technology delivers vibrant and easy to read weight status on every package, no matter how high the production rate. Display of live weight and static display of last package weight, along with colored weight zones, from low reject to high reject, are shown on-screen. Three levels of password protection ensure ease of use for the operator and security for your information.

Data is key to your enterprise. The 5511 Heavy-Duty MDR Checkweigher offers a built-in Ethernet TCP/IP Port and two serial ports for transmission of weight data, recipe information and status. Optional Protocols are available for direct interfacing to your PLC or DCS, including EIP, Profibus, DeviceNet, 4-20mA & 0-10VDC outputs.

New programs and features can be easily added with your laptop and a network cable. Take advantage of the built-in Ethernet TCP/IP Port to log into the controller and upload the latest program. Use our optional Model 930 data logger tool to save all recipe data and system configuration to a thumb drive. Quickly up-load and you're back in business.



Thompson Scale Company

WEIGHING SYSTEMS & PACKAGING MACHINERY CONTROLS

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Hardware

- All-welded formed slider bed conveyor
- Powder coated frame, options for SS
- 4.5" dia. ½ Hp 3 Phase 240/480VAC Drive Pulley
- 4.5" dia. return roller, sealed bearings
- 1.9" dia. steel take-up roller
- Conveyor lengths from 36" to 52"
- Conveyor belt width 24", other widths available at extra charge
- 2-Ply Check-out style belt with lacing
- Flexure Scale with SS flexure plates, plated load cell
- SS dust cap on scale keeps load cell and flexures free of build up
- Adjustable support stands, powder coated mild steel all-welded frames
- Checkweigher controller in wall-mount style enclosure for customer installation

Performance

- Scale capacities from 5 to 500 lbs.
- Conveyor speeds variable, up to 250 fpm
- Production rates to 50 packages per minute
- Accuracy of +/-0.05 lb. for package weights to 110 lbs.
- Repeatability as great as +/-0.03 lb. @ 2 Sigma
- 100 Recipe memory
- Set to 5 or 3 weight zones. Manifest mode if set to 0
- Requires a single static calibration – no dynamic calibration required



Scale Controls Features

- IP66 fiberglass and optional SS enclosures, rated for wash-down
- 5.7" Color touch screen, icon driven menus
- Easily replaced protective graphic overlay
- Screen protectors for abrasive environments
- 89-230VAC Single Phase 50/60 Hz Source Power Connection
- Fused 24VDC output to I/O cards
- Dedicated 24VDC outputs for zone lights, reject signals, alarms, etc.
- Dedicated 24VDC inputs for photo sensors, interfaces, etc.
- Sample Rates to 500/second
- 5-pole digital filter
- 5, 3 or 0 weightment zones for different display/stack light configurations
- Built-in Ethernet TCP/IP port
- EIP, Profibus, DeviceNet Options
- 4-20mA and 0-10VDC Options
- Two RS-232/RS-422 serial ports
- Timer functions for reject delay & duration, option for metal detector reject input
- Multiple reject device outputs; sorters, high/low/metal, etc.
- Trend alarms, adjustable averaging, feedback loops, many other options
- On-screen real-time I/O diagnostics mode with just one touch

Your Integrator:



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