

BULK SERIES



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CONTROL SYSTEMS ●●●

CHRONO-TRONIC™ BULK SERIES



**CHRONOS**  
RICHARDSON



# CONTROL SYSTEMS

## WEIGHING AND RECORDING SYSTEM

## BULK SERIES

**CHRONO-TRONIC™ BULK SERIES** reflects the latest technology in weighing and recording systems for receiving and shipping of bulk materials. The system offers the highest operational reliability and is designed to be used with receiving or

shipping scales of any type, especially the AW/VW hopper scales. In addition, this system is perfect for modernizing/updating your existing receiving or shipping equipment.

### ● ● ● APPLICATIONS

**CHRONO-TRONIC™ BULK SERIES** provides a cost-effective solution for every application.

**BULK 3000:** Standard system for easy receiving/shipping weighers.

**BULK 8000:** The universal system can be used for manifold applications due to the user-friendly interface and different interfaces and storage options.

**BULK 9000:** The system has been designed for optimum throughput and features ease of operator use, network integration with Internet remote diagnosis tool.



BULK 3000



BULK 8000



BULK 9000

### ● ● ● FUNCTIONS

#### Basic functions

- Receiving and shipping software based on the extraction (loss in weight) principle
- Filling control for full flow in receiving mode, with additional medium and dribble flow in shipping mode (screw drive and other filling principles optionally)
- Selectable shipping program for achieving final shipping weights or empty running of the delivery line
- Automatic overload protection
- Automatic overfill protection (only in conjunction with level probe for weigh hopper, optionally)

#### Features and benefits

- Subtractive taring
- automatic and manual zero setting
- Switch-on zero setting
- Automatic in-flight material control, can be switched on and off
- Residue weight determination
- Filling counter

#### Diagnostics options

- Simulation system for troubleshooting and training
- Integrated status display for inputs and outputs for field troubleshooting
- Error and diagnosis messages in plain text



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## WEIGHING AND RECORDING SYSTEM

### CALIBRATION

- Calibration accuracy for weight determination
- Accuracy classes 0.2, 0.5, 1 and 2 pursuant to **OIML R 107**
- PTB approval in line with MID Directive

### OUTSTANDING FEATURES

#### Ease of operator use

Multilingual menus in plain text operation, error and status messages in plain text. **BULK 8000** and higher – optional PC keyboard. Individual setting options to eliminate unnecessary operation steps.

#### Storage options

- 250 customer files (**BULK 8000** and higher)
- 150 data files for material balancing (**BULK 8000** and higher)
- Up to 150 silos can be addressed for shipping

#### Ready to meet customer's requirements

The standard version features up to 150 weighing parameter files for pre-setting of accurate designation of weighing goods (alphanumeric)

### DESIGN FEATURES

#### Interfaces for input, EDP and data exchange

- Printer interface RS 232
- PC interface RS 232 for data storage and actual value recording.

#### Option: Communication tool for Windows

- PC COM+, components for Windows applications

#### Optional interfaces

- Interface for remote display RS 232/RS 485/TTY
- Analog output 0-20 mA, 4-20 mA, 0-10V DC (**BULK 8000** and higher)
- Filling counter, 24V,

#### Digital Inputs/Outputs

- 8 digital inputs, 24 DC, opto-isolated
- 8 potential-free relay or transistor outputs for solenoid valves or SPS connection

#### Potential-free networking options

- Profibus (**BULK 8000** and higher)
- DeviceNet (**BULK 8000** and higher)
- Ethernet (**BULK 8000** and higher)

#### Additional features

- Power failure protection of data storage
- Password protection for all data
- Storage battery buffered real-time clock
- Monitoring functions for dosing tolerance, dosing time, throughput, material stock, compressed air

**Supply options**

- Compact housing made from stainless steel, desktop or wall-support assembly, protection class IP67 (**BULK3000** 225x120x145 mm, **BULK 8000** 260x210x170 mm, **BULK 9000** 376x265x140 mm)
- Built-in version for switch cabinet doors, front protection system IP67, detail dimensions: **BULK 3000** 199x139, **BULK 8000** 243x198 mm, **BULK 9000** 313x233 mm.



**Printing options**

- Start and final print for receiving and shipping weigher (AW/VW)
- Only final print for receiving and shipping weigher (AW/VW)
- Individual print, selectable for receiving and shipping
- Printing options for all important weighing, customer, material and silo data as well as order reports
- Test printout of the determined actual value to be calibrated
- All commercial printers (Epson-compatible) with serial interface
- Weighing cards or forms in any format (at least DIN A6) via commercial form printer

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As inventor of the first automatic weigher, we have extensive application experience in the areas of weighing, batching, bagging and palletizing in food, chemical and plastic industry, fertilizers, cement and milling segment.

**Chronos Richardson Systems** is now the official identity for the Industrial Equipment Group of PREMIER TECH, one of the world's leader in the field of industrial flexible packaging industry.

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