

## BWC-1 Bulkweighing Controller



FGIS/GIPSA  
approved

PART #	DESCRIPTION
43262 .....	BWC-1 Bulkweighing Controller, 115 VAC
48421 .....	BWC-1 Bulkweighing Controller, 230 VAC
48419 .....	BWC-1 Bulkweighing Controller, NEMA 4X Stainless Steel Enclosure, 115 VAC
48420 .....	BWC-1 Bulkweighing Controller, NEMA 4X Stainless Steel Enclosure, 230 VAC

The BWC-1 bulkweighing controller provides the precision and control required in bulk weighing applications. This versatile bulkweigher allows weighing of up to 50 products, and offers both shipping and receiving modes. Two-speed fill and learned preacts provide accurate drafts and filling. Real-time printing of draft weights gives you the weight data you need throughout the draft process.

### Applications

- Bulk shipping/receiving
- Railcars
- Barges

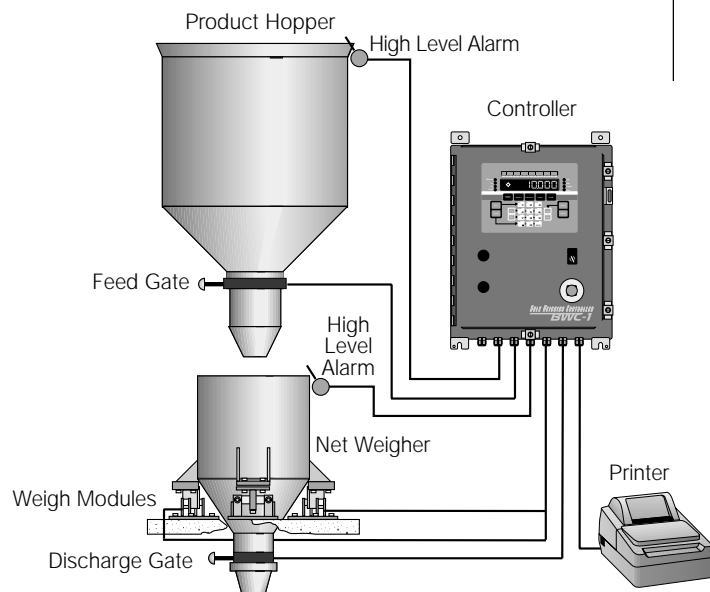
### Standard Features

- Single-scale bulkweighing
- Up to 50 different products
- Two-speed fill for accurate drafts
- Automatic and manual operating modes
- Learned preacts for accurate filling
- NEMA 4 mild steel enclosure
- OPTO 22 G4 I/O modules
- Real-time accumulation
- RATTLETRAP® vibration control
- Safety interlocks for hopper gates
- Subtotal draft printing
- Auto-adjusting final draft
- Real-time printing of draft weights
- Shipping and receiving modes
- User selectable alarm outputs
- Automatic build-up test
- Flow monitoring
- 48-segment bar graph display of sequence, draft process, or progress to target

### Options/Accessories

- 65084 ..... 5' RS-232 printer interface cable assembly
  - 65083 ..... 5' Epson printer status interface cable assembly
- Consult factory for these additional options:**

- Manual override switches
- Audible alarms
- RS-485 two-wire interface
- Simulator



**LOAD CELL EXCITATION:**

10 ± 0.5 VDC, 16 x 350-ohm load cells (on up to 4 channels)

**LOAD CURRENT:**

460 mA maximum (16 350-ohm load cells)

**INTERCONNECTION CABLE REQUIREMENTS:**

6-wire selective (jumpers required on sense leads for 4-wire)

**ANALOG SIGNAL INPUT RANGE:**

0.6 mV/V - 3.9 mV/V

**ANALOG SIGNAL SENSITIVITY:**

0.3 microvolts/graduation minimum

Legal-for-trade recommended minimum 1 microvolt/graduation

**INPUT OVERLOAD:**

±12V continuous, static discharge protected

**CONVERSION RATE AT FULL SCALE:**

20/second, typical (standard resolution)

10/second, typical (high resolution)

**RESOLUTION:**

Selectable up to 100,000 displayed graduations

Selectable up to 740,000 graduations internal

**DISPLAY INCREMENTS:**

1, 2, 5

**UNDERRANGE BLANKING:**

-2 mV signal nominal

**OVER/UNDER CAPACITY ANNUNCIATION:**

Overload displayed as: ---

Underload displayed as: ...

**LEAD ZERO BLANKING:**

Standard, per NIST H-44 requirements

**DISPLAY:**

Large .55" (14.0mm) 7-digit, 14-segment blue/green VFD

**POLARITY INDICATION:**

" - " sign

**DECIMAL POINTS:**

8888888, 888888.8, 88888.88, 8888.888, 888.8888,  
88.88888, 8.888888, 8888800, 8888880

**LB/KG SWITCHING:**

Front-panel push button

**FRONT-PANEL CONTROL SWITCHES:**

Start/Stop, Target, Product, Draft, Done, Fill, Clear, F1, F2,  
Cust, Cont, Dump, Print

**FRONT-PANEL ANNUNCIATORS:**

Manual, lb/kg, Slow, Low, High, Hopper/Gate

**SERIAL OUTPUT:**

"EDP" port, full duplex RS-232; 20 mA or RS-485 optional

"Printer" port, simplex RS-232 and 20 mA current loop

**RELAY INPUTS:**

8 inputs

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8 outputs standard

**AZM APERTURE:**

±1.9% of selected full scale capacity or 100%, internal  
selectable

**ANALOG FILTERING:**

Software selectable: 2, 8 Hz typical/3 pole, off (25 Hz)

**DIGITAL FILTERING:**

Standard range software selectable: 1, 2, 4, 8, 16, 32, 64, 128

RATTLETRAP® high vibration control: 4, 8, 16, 32, 64, 128

**MOTION BAND:**

1, 2, 3, 5, 10, 20, off

**MOTION TIME SENSITIVITY:**

Fixed at 1 second

**POWER:**

Line voltages: 115 or 230 VAC +10%/-15%

Frequency: 50 or 60 Hz

Power consumption: 12 VA with minimum configuration, 30 VA  
with all options

Fusing: 0.25A SB (UL/CSA) 5x20mm @ 120V operation

0.125A SB (UL/CSA) 5x20mm @ 240V operation

**DISPLAY CHECK:**

All digit segments and annunciators simultaneously illuminated  
upon application of power

**OPERATING TEMPERATURE:**

14°F to 104°F (-10°C to 40°C)

**PACKAGING:**

Enclosure: NEMA 4 painted mild steel

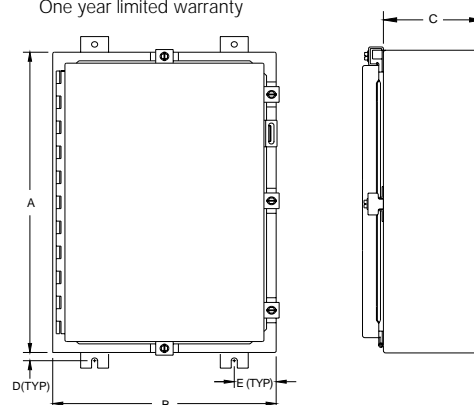
Weight: Approximately 40 lb (18 kg)

**APPROVALS:**

NTEP, FGIS/GIPSA certified, Class III/IIIL, CC# 98-157

**WARRANTY:**

One year limited warranty


**DIMENSIONS**

A = 20.00" (508mm)

D = 0.62" (16mm)

B = 16.00" (406mm)

E = 3.0" (76mm)

C = 6.00" (152mm)