

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

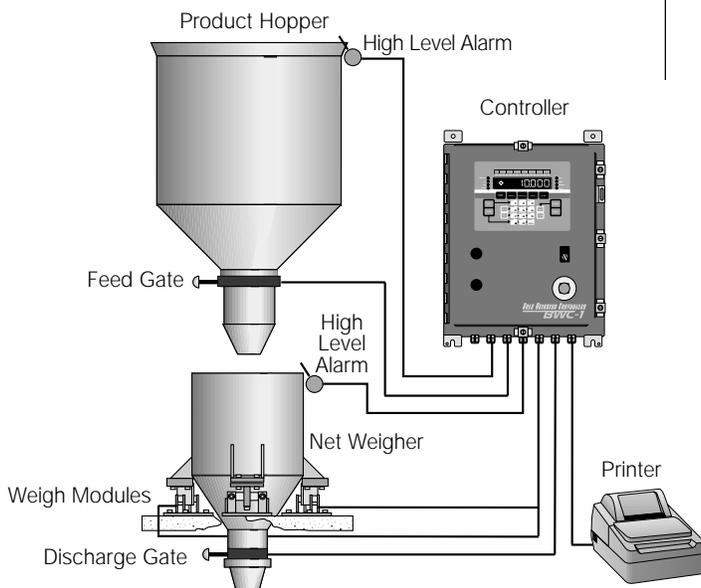
- Bulk shipping/receiving
- Railcars
- Barges

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



(Specifications on back)

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, 88888800, 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

RELAY OUTPUTS:

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:

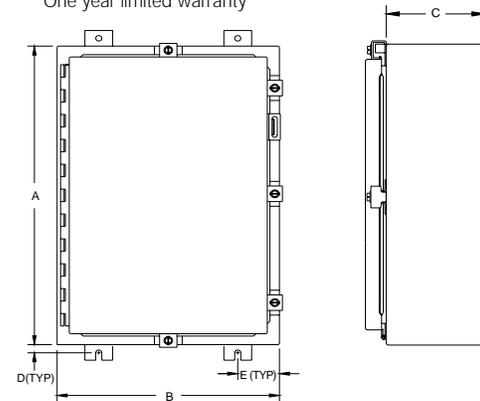
Enclosure: NEMA 4 painted mild steel
Weight: Approximately 40 lb (18 kg)

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)	