

# BDI-2002 series

## WEIGHING INDICATOR & CONTROLLER

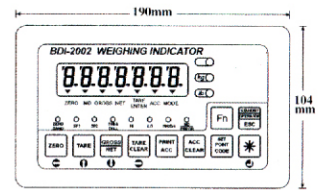
**OPTION: CONTROL 1/0. RS232/422/485.  
 PRINTER INTERFACE. BCD. 4~20mA. 0~10V.**

**Breakthrough High Display Resolution  
 Batching Control (Feeding & Loss-in-Weight)  
 120 Times/Sec A/D Conversion Rate  
 Fully Digital Calibration  
 Compact Size**

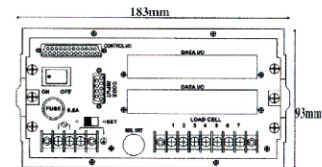


### BDI-2002 Weighing Indicator & Controller Features:

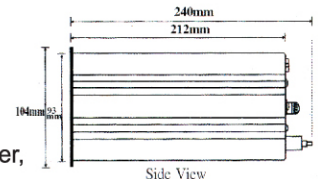
- \* 1/16,000 display resolution (Max. 1/60,000 depending on load cell quality & performance).
- \* Internal Resolution 1,000,000, A/D Conversion rate 120 times/ Sec.
- \* Watchdog virtually eliminates malfunctions that associated with computerized equipment or software failure.
- \* Full Digital Calibration makes setting ZERO and SPAN Calibration an easy task.
- \* Drives up to 8 parallel connecting load cells. (350Ω)
- \* 8k bytes SRAM with Li-battery backup. Information will not disappear even power failure.
- \* The settings of function and weighing parameters are all stored in the EEPROM, with storage duration over 40 years.
- \* Important values and parameters can have storage backup.
- \* Users can adjust the intensity of digits filter to avoid mechanical vibration that caused by external environments to achieve high-speed and accurate measurement.



Front View



Rear View



Side View

Set point codes can store up to 100 sets of: Final, SP1, SP2, FREE FALL, HI, LO.  
 Automatic Free Fall Compensation provides closer tolerance and precise weighing.  
 8 Set of control Input: ZERO Input, TARE Input, TARE reset, Start batch, Abort batch, Print Accumulator, Print Input, Clear ACC. & COUNT.  
 8 Set of control output: ZERO Band output, SP1 output, SP2 output, (Final-Free Fall) output, HI output, LO output, Final output, MD/Error output.  
 5 batching modes: Customer Programmed Control Made: Normal Batching, Customer Programmed Control Mode: Loss-in-weight batching, Built-in Automatic Program Mode: Normal batching, Built-in Automatic Program Mode: Loss-in-weight batching, Multiple-Ingredient batching.  
 Standard Serial Output (20mA Current Loop) for remote display.  
 Optional printer interface can automatically print or output data includes date, time, set point code, serial number, weight, and unit

### Analog Input and A/D Conversion

Type	BDI-2002
Input Sensitivity	0.3μV/D
ZERO Adjustment Range	0~20mV
Max. Resolution	1/16,000 (Max. 1/60,000 depending on load cell quality & performance)
Main Display (Green Tube)	7-segment, 7-digit display, VFD screen with a 13mm character size, displays the weight.
Minimum Division	x1, x2, x5, x10, x20, x 50
Maximum Display	+800450
Load Cell Excitation	DC10V ± 1%, 230mA, Remote Sensing. Can be connected up to 8-(350Ω Load Cells)
Non-Linearity	0.01%F.S.
A/D Conversion Method	ΔΣ
A/D Resolution	1/1,000,000
A/D Conversion Rate	Approx 120 Times/Sec.
Max. Load Cell Input Voltage	32mV
ZERO Temperature Comp.	± (10.2μV + 0.001% of Dead Load)/°C TYP
SPAN Temperature Comp.	± 0.001% °C TYP

### General

Type	BDI-2002
Power Requirements	AC 220V ± 10%, 50/60Hz Approx. 17VA
Net weight	Approx. 3.2kg(7.054 LB)
Operation Temperature	-10°C ~ 45°C
Maximum Humidity	85% (non-condensing)
Physical Dimensions	240 (D) X 190 (W) X 104 (H) mm

### Standard

Current Loop	20mA
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### Options

OP-01	I/O Interface
OP-02	Serial Interface RS-232 or RS-422/485
OP-03	Printer Interface (Include Date and Time)
OP-04	Parallel BCD Output
OP-05	Analog Output 4~20mV
OP-06	Analog Output 0~10V