

# BDI-2002 WEIGHING INDICATOR & CONTROLLER

OPTION: CONTROL I/O, RS-232/422/485, 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:

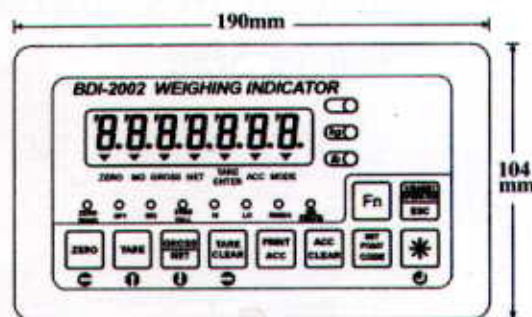
- \* 1/16,000 display resolution (Max. 1/ 60,000 depending on load cell quality & performance).
- \* Internal Resolution 1,000,000, A/D Conversion rate 120 times/ Sec.
- \* Watchdog virtually eliminates malfunctions that associated with computerized equipment or software failure.
- \* Full Digital Calibration 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.



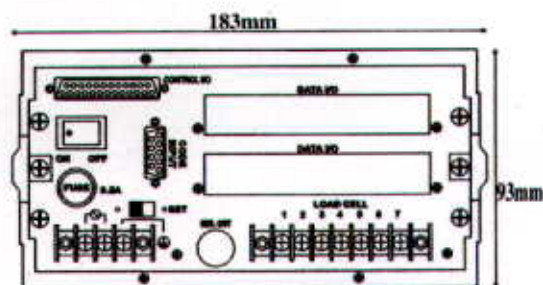
- ★ Set point codes can store up to 100 sets of: Final, SP1, SP2, Free Fall, HI, LO.
- ★ Automatic Free Fall Compensation provides closer tolerance and precise weighing.
- ★ 8 Set of control Input: ①ZERO Input, ②TARE Input, ③TARE reset, ④Start batch, ⑤Abort batch, ⑥Print Accumulator, ⑦Print Input, ⑧Clear ACC. & COUNT.
- ★ 8 Set of control output: ①ZERO Band output, ②SP1 output, ③SP2 output, ④(Final-Free Fall) output, ⑤HI output, ⑥LO output, ⑦Final output, ⑧MD/Error output.
- ★ 5 batching modes: ①Customer Programmed Control Mode: Normal Batching, ② Customer Programmed Control Mode: Loss-in-weight batching, ③Built-in Automatic Program Mode: Normal batching, ④Built-in Automatic Program Mode: Loss-in-weight batching, ⑤ 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

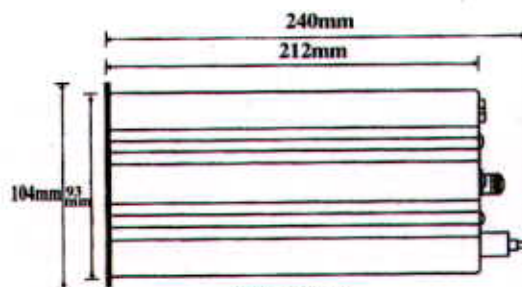
Type	BDI-2002
Input Sensitivity	$\geq 0.3 \mu\text{V/D}$
ZERO Adjustment Range	0~20mV
Max. Resolution	1/16,000(Max. 1/60,000 depending on load cell quality & performance)
Main Display (Green Tube)	7-segment, 7-digit display, VFD screen with a 13mm character size, displays the weight.
Minimum Division	x1, x2, x5, x10, x20, x50
Maximum Display	+800450
Load Cell Excitation	DC10V $\pm$ 1%, 230mA, Remote Sensing. Can be connected up to 8-(350 $\Omega$ Load Cells)
Non-Linearity	0.01%F.S.
A/D Conversion Method	$\Delta \Sigma$
A/D Resolution	$\approx 1/1,000,000$
A/D Conversion Rate	Approx. 120 Times/Sec.
Max. Load Cell Input Voltage	32mV
ZERO Temperature Comp.	$\pm(10.2 \mu\text{V} + 0.001\% \text{ of Dead Load})/^\circ\text{C}$ TYP
SPAN Temperature Comp.	$\pm 0.001\% \text{ } ^\circ\text{C}$ TYP



Front View



Rear View



Side View

### General

Type	BDI-2002
Power Requirements	AC 110V or AC 220V $\pm$ 10%, 50/60Hz
Net weight	Approx. 3.2kg(7.054 LB)
Operation Temperature	-10 $^\circ\text{C}$ ~ 45 $^\circ\text{C}$
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

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