AD-4404

Check Weighing Indicator

Fast Sampling Speed for Check Weighing Application
User Programmable Check-Weighing Mode for Many
Specific Requirements - Manual Check-Weighing System
and Fully Automatic Check-Weighing System









More Choices from New Advanced Weighing Indicator for Numerous Weighing System Applications

Features

- ●Easy to get judgment by Hi/OK/Lo or HiHi/Hi/OK/Lo/LoLo Comparator lights with buzzer
- Foreign Material Detection input function is newly added
- •Bar graph shows where the weight of an object falls within the OK range
- Built-in timer controls weighing process by signal from an external photoelectric switch or by programmable weight recognition function that is beneficial for transparent objects
- •Weight, Accepted Piece, Accumulated Piece count, name of the object weighed, and standard deviation can be displayed at the touch of button
- OUp to 100 sets of target (OK weight), Hi, Lo and tare can be stored by individual code number
- •5 digits of Target and 4 digits of Upper and Lower Limit can be set by the front key operation and number of digit and its location can be customized
- Bright and large 13mm (0.52 inch) fluorescent display
- ●1/16000 display resolution capability, precise enough for any application
- Sealed keys keep out dust in industrial environments
- ●100 times/second fast sampling
- Standard Current Loop output and Standard RS-485
- •Full Digital Calibration makes Zero and Span calibration a breeze
- Complete RFI/EMI protection

Many Features Simplify Operation

Display (Default) —— Stores and recalls up to 100 sets of pre-set items by individual code number

Total number of pieces checked Total number of pieces accepted

Target Weight

Bar graph indicates deviation from target weight

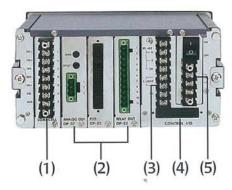
- Heavy-duty construction
- Easy installation
- Simple calibration
- 11 inputs and 11 open collector output standard Optional Dry contact relay
- Auto Zero Maintenance with adjustable parameters
- Comparator Buzzer
- Front panel key lock out prevents operator tampering
- •Fully selectable decimal point positioning
- Programmable Gravity Compensation
- Selectable units of measuring: None, g, kg, t, lbs (USA)



Rear Panel Descriptions -

There are many features, like selectable I/O control terminals, standard RS-485 I/F.

- (1) Load cell input 350Ω L/C up to 8 units Replacement A/D board available Accuracy guaranteed to 1/500
- (2) 3 Options slots Up to 3 options installed
- (3) External control RS-485 standard, up to 32 units controlled simultaneously
- (4) Programmable Control I/O Input 11/Output 11
- (5) AC Power 85~250V

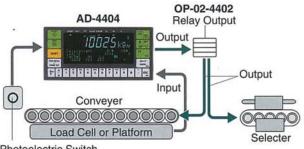






User Programmable Check-Weighing Modes

Because check-weighing requirements are not the same for everyone, we designed the AD-4404 to be programmable to your specific requirements.

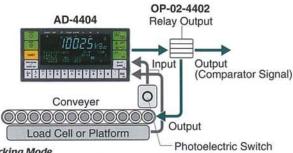


Photoelectric Switch

• Fully Automatic (1): Always in motion. Automatic reject.

Simple Check Weigher In-motion only.

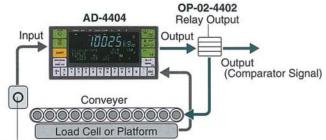
Records total packages and total acceptable packages.



Packing Mode

Fill container on in-motion scale while stationary. Press start button when complete.

If container is within acceptable range, conveyors starts.



Photoelectric Switch

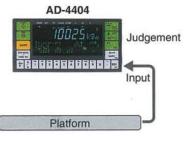
Semi-Automatic (1): Stops conveyer when item is out of acceptable range.

●Fully Automatic (2):
Conveyor stops during weighing for high accuracy. Automatic restart. Automatic reject.

Semi-Automatic (2):

Conveyor stops during weighing for higher accuracy. Conveyor stops and buzzer sounds

for items out of acceptable range.



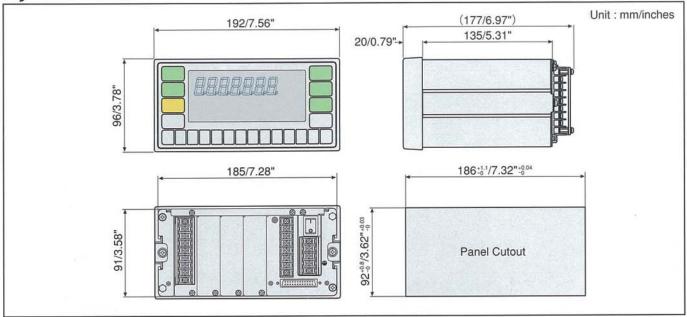
●Hi/OK/Lo

Set the acceptable weight range and set the buzzer function to your Hi/OK/Lo requirements.



Check Weighing Indicator

Physical Dimensions



Specifications

Analog Input and A/D Conversion

Input Sensitivity 0mV~20mV (0mV/V~2mV/V) Zero Adjustment Range-Input Signal Range 0mV~32mV (0mV/V~3.2mV/V) DC 10V±5% 230mA, Remote Sensing Load Cell Excitation (Up to 8 load cells at 350Ω /load cell)

Zero Temperature Coefficient ±(0.2uV+8ppm of dead load)/°C (typically) ±8ppm/°C of reading (typically) Span Temperature Coefficient

0.01% of full scale Non-Linearity -Less than 0.6μVp-p Input Noise $10M\Omega$ or more Input Impedance A/D Conversion Method -Delta Sigma

1,000,000 counts A/D Resolution 16,000 counts (This limitation can be Maximum Display Resolution

bypassed) 100 times/sec. A/D Conversion Rate -

Digital Section

Blue Fluorescent, 7-segment, 7-digit Main Display

Character Height: 18mm

Blue Fluorescent, 7-segment (54 digits) Subdisplay-

/5×7 dots (54 digits) Character Height: 5mm

Status Displays/Symbols-8 displays/10 symbols (5×7 dots)

External Input/Output Section

Control I/O Inputs 11/Outputs 11 Standard Serial I/F (Ch.1) RS-485 (Terminal) Standard Serial I/F (Ch.2) Current loop (Terminal) General

AC 85V~250V (50/60Hz) Power Consumption-Approximately 30VA -5~+40°C (23°F~104°F) Operating Temperature

Operating Humidity Less than 85% RH (non-condensing) **Physical Dimensions** $192(W) \times 135(D) \times 96(H) \text{ mm}$

 $7.56(W) \times 5.31(D) \times 3.78(H)$ inches

With terminal posts: $192(W) \times 177(D) \times 96(H) mm$

 $7.56(W) \times 6.97(D) \times 3.78(H)$ inches $186(W) \times 92(H) mm$

Panel Cutout Dimensions $7.32(W) \times 3.62(H)$ inches Approximately 1.8 kg / 4.0 lb Net Weight

Options

OP-01-4402 **BCD Output** OP-02-4402 Relay Output RS-422/RS-485 I/O OP-03-4402 RS-232C I/O OP-04-4402 OP-05-4402 Parallel I/O OP-07-4402 **Analog Output**

Accessories

AD8118A	——— Journal Printer
AD8118B	— Universal Printer
AD8121A	— Dot matrix Printer
AD8917	——— External Display
AD8512 —	— Digital Comparator
AD8951	Comparator Light

Specifications subject to change for improvement without notice.



...Clearly a Better Value

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