Check Weighing Indicator

Specifications

Analog Input and A/D Conversion
- Input Sensitivity: 0.3µV/d
- Zero Adjustment Range: 0mV~20mV (0mV/V~2mV/V)
- Input Signal Range: 0mV~32mV (0mV/V~3.2mV/V)
- Load Cell Excitation: DC 10V 5%, 330mA, Remote Sensing
- Up to 8 load cells at 350Ω (load cell)
- Zero Temperature Coefficient: ±0.2µV/V (8µV/V peak)
- Span Temperature Coefficient: ±0.2µV/V (8µV/V peak)

Digital Section
- Main Display: Blue Fluorescent, 7-segment, 7-digit
- Character Height: 18mm
- Subdisplay: Blue Fluorescent, 7-segment (54 digits)
- Character Height: 7mm
- Status Displays/Symbols: 8 displays/10 symbols (5x7 dots)

External Input/Output Section
- Control I/O: Inputs 11/Outputs 11
- Standard Serial (IF Ch. 1): 4-20mA (Terminal)
- Standard Serial (IF Ch. 2): Current loop (Terminal)

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

Accessories
- AD8118A: Journal Printer
- AD8118B: Universal Printer
- AD81214: Dot Matrix Printer
- AD8917: External Display
- AD8512: Digital Comparator
- AD8951: Comparator Light

General
- Power: AC 85V~250V (50/60Hz)
- Consumption: Approximately 30VA
- Operating Temperature: -5~+40ºC (23ºF~104ºF)
- Operating Humidity: Less than 85% RH (non-Condensing)
- Physical Dimensions: 192(W) x 32(W) x 96(H) mm
- Panel Cutout Dimensions: 186(W) x 32(W) inches
- Net Weight: Approximately 1.8 kg / 4.0 lb

Specifications are subject to change without notice.

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
- Up 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 3500 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.

Set-up Example

![Diagram of AD-4404 Check Weighing Indicator](image)

- **Full Automatic (1):** Always in motion. Automatic reject.
- **Semi-Automatic (1):** Conveyor stops when item is out of acceptable range.
- **Semi-Automatic (2):** Conveyor stops during weighing for higher accuracy. Automatic restart. Automatic reject.
- **Simple Check Weigher:** In-motion only. Records total packages and total acceptable packages.
- **Hi/OK/Lo:** Set the acceptable weight range and set the buzzer function to your Hi/OK/Lo requirements.