

AD-4404

CHECK WEIGHING DIGITAL 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

by
AND
A&D MERCURY PTY LTD

HIGHLIGHTS

- 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 Photo-Electric 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 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



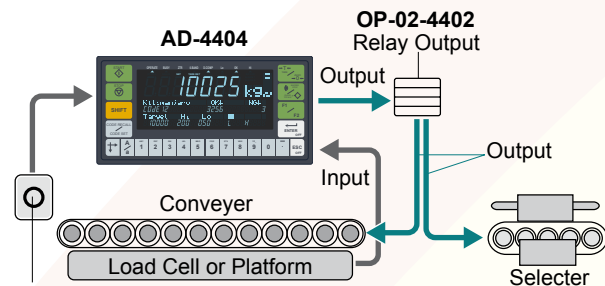
EXAMPLE APPLICATION

ADDITIONAL FEATURES

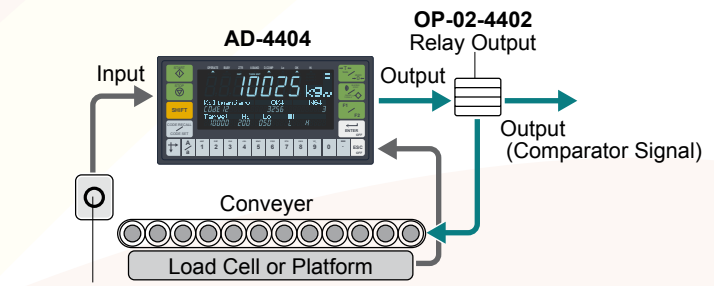
- Display as Default:
 - Stores and Recalls Up to 100 Sets of Pre-Set Items by Individual Code Number
 - Total Number of Pieces Checked
 - Total Number of Pieces Accepted
 - Target Weight
 - Bar Graph Indicates Deviation from Target Weight
- Heavy-Duty Construction
- Easy Installation
- Simple Calibration
- 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 Measure: None, g, kg, t

USER PROGRAMMABLE CHECK-WEIGHING MODES

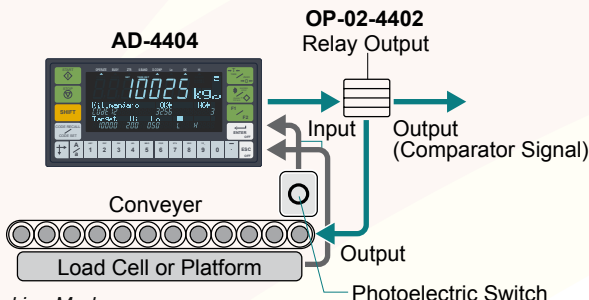
Because check-weighing requirements are not the same for everyone, A&D designed the AD-4404 to be programmable to your specific requirements.



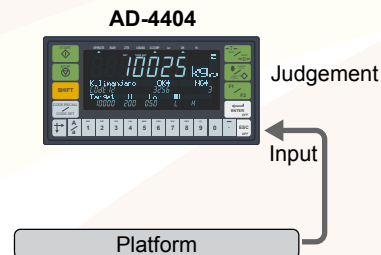
- **Fully Automatic (1):** Always in motion. Automatic reject.
- **Simple Check Weigher:** In-motion only. Records total packages and total acceptable packages.



- **Semi-Automatic (1):** Stops conveyor 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.



- **Packing Mode:** Fill container on in-motion scale while stationary. Press start button when complete. If container is within acceptable range, conveyors starts.

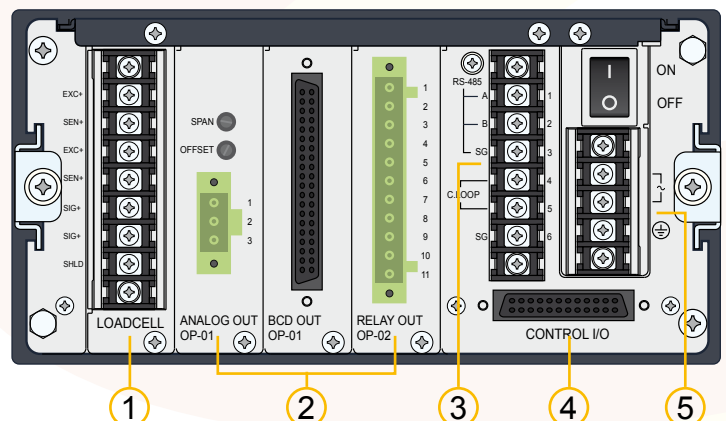


- **Hi/OK/Lo:** Set the acceptable weight range and set the buzzer function to your Hi/OK/Lo requirements.

REAR PANEL FEATURES

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

1. Up to 8 x 350Ω Loadcells, Replacement A/D Board Available, Accuracy Guaranteed to 1/500
2. 3 x 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

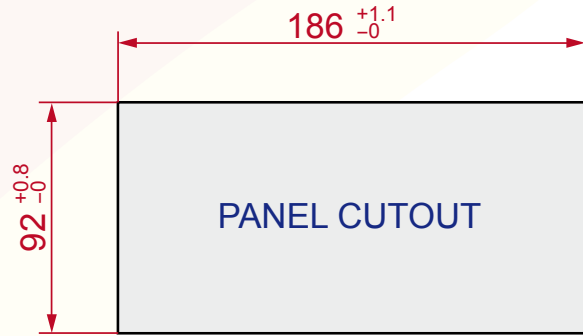
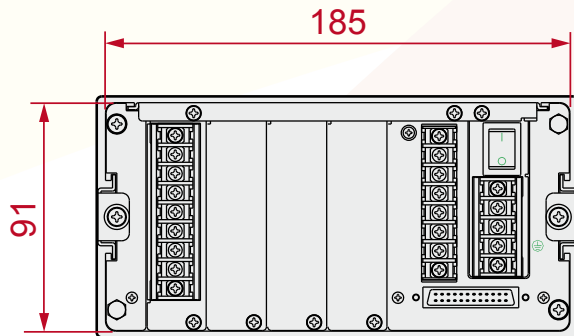
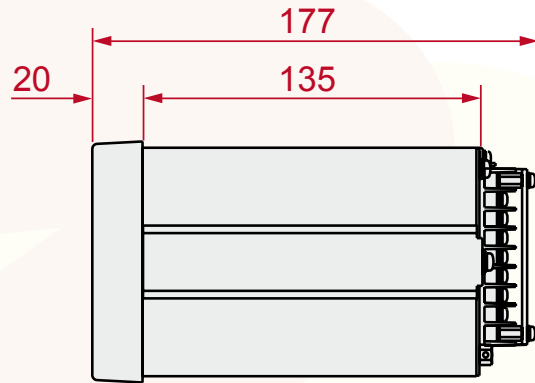
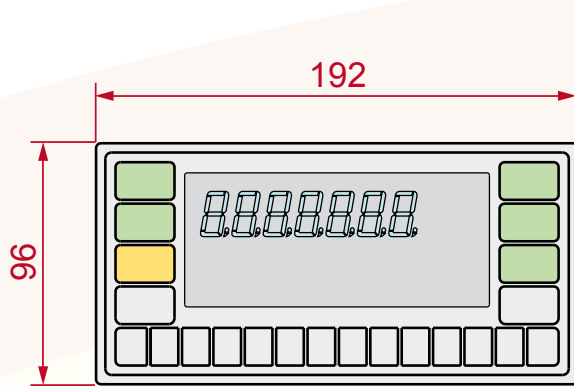


SPECIFICATIONS

ANALOG & A/D CONVERSION	
Excitation	10V \pm 5%, 230mA, Remote Sensing, Maximum 8 x 350 Ω Loadcells
Input Sensitivity	Minimum of 0.3 μ V/Division
Operating Modes	Single Range
Zero Cancellation	0mV to 20mV (0mV/V to 2.0mV/V)
Span Adjustment	0mV to 32mV (0mV/V to 3.2mV/V)
Non-Linearity	\pm 0.01% of Full Scale or Less
Temperature Co-Efficient	Zero \pm (0.2 μ V+8ppm of Dead Load)/ $^{\circ}$ C (Typically) Span \pm 8ppm/ $^{\circ}$ C of Reading (Typically)
Input Impedance	10M Ω Minimum
Input Noise	\pm 0.6 μ Vp-p or Less
Display Resolution	Up to 16,000 Divisions, Minimum of 0.6 μ V/Division
Internal Resolution	1,000,000 Internal Counts
A/D Conversion Method	Delta Sigma
A/D Conversion Speed	Approximately 100 Times/Second
DIGITAL	
Main Display	Blue Fluorescent, 7-Segment, 7-Digit, 18mm Characters
Sub Display	Blue Fluorescent, 7-Segment (54-Digits)/5x7 Dots (54-Digits), 5mm Characters
Status Displays	8 Displays/10 Symbols (5x7 Dots)
GENERAL	
Power	85VAC ~ 240VAC, 50/60Hz
Power Consumption	Approximately 30VA
Operating Temperature	-5 $^{\circ}$ C ~ +40 $^{\circ}$ C
Operating Humidity	Less than 85% Relative Humidity (Non-Condensing)
Net Weight	Approximately 1.8 kg
Dimensions	192mm(W) x 135mm(D) x 96mm(H) With Terminal Posts: 192mm(W) x 177mm(D) x 96mm(H)
Panel Cutout	186mm(W) x 92mm(H)
EXTERNAL INPUT/OUTPUT	
Control I/O	Inputs: 11, Outputs: 11
Standard Serial I/F (Ch.1)	RS-485 (Terminals)
Standard Serial I/F (Ch.2)	Current Loop (Terminals)



DIMENSIONS



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 (4-20mA)

ACCESSORIES

- AD8118B Universal Printer
- AD8121B Dot Matrix Printer
- AD8922 External Display
- AD8512 Digital Comparator
- AD8951 Comparator Light



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