AD-4402

Multifunction Weighing Indicator with Field Bus Support

The AD-4402 combines a small body with a large display and excellent weighing sequence functions. The AD-4402 can be used with various factory devices with its support for field bus (CC-Link, DeviceNet, PROFIBUS), Modbus, serial, parallel, analog output and relay output.

Display

- Large Vacuum Fluorescent Display (VFD) with 18mm characters on main display
- Sub display shows weight, raw material, setpoint, cumulative value, code name, and error message, etc. on the same screen.
- Waterproof front panel (IP-65 compliant)

Weighing Functions

- Preprogrammed with normal-batching and loss-in-weight sequences
- Batch-time/discharge-time monitoring and supplementary flow function
- Mixing function - one unit can mix multiple materials
- Sequence functions for filling and mixing
- High-speed sampling at 100 times/sec enables swift response to weight changes
- Memory function
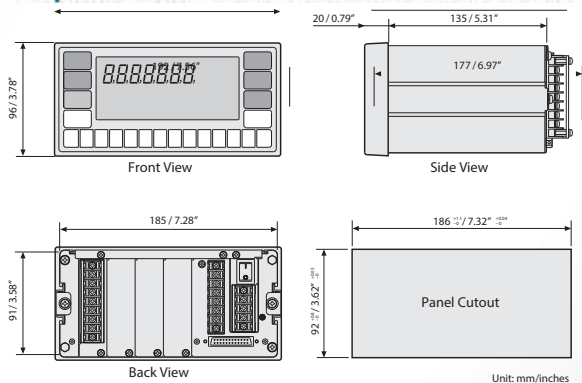- Stores 100 data values of both raw materials and recipe codes

External I/O

- Configurable Control I/O: 11 Input nodes, 11 Output nodes
- Standard RS-485, Current Loop Output (for connection to A&D peripheral devices)
- Modbus-RTU
- Optional Items
  RS-232C, RS-422/485, Relay Output, Parallel BCD Output, Analog Output (4-20mA)
- Field bus
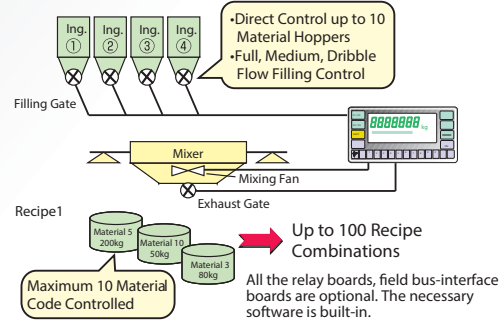 Can connect to CC-Link, DeviceNet, PROFIBUS (optional)

Digital Calibration Function Supports all power sources

- AC100 to 240V (switching-mode power supply) DC 24V model also available (AD-4402D)
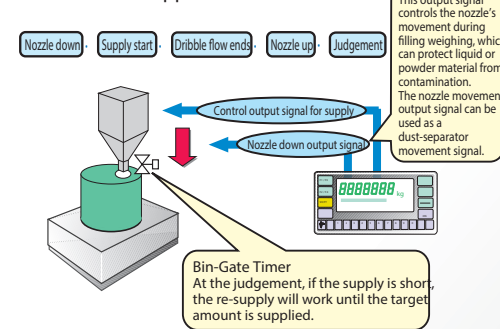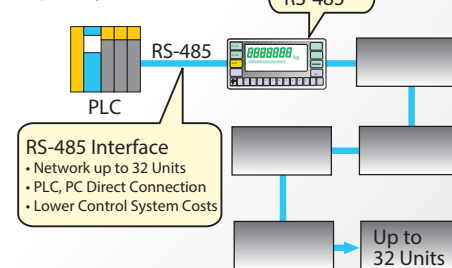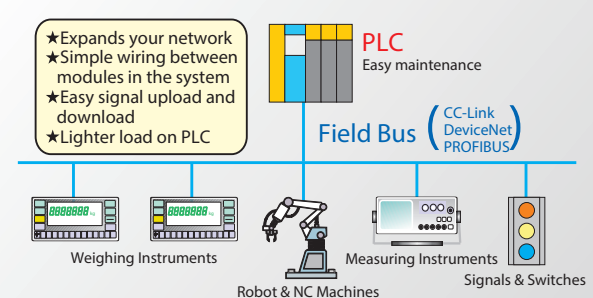
Capable of Modbus-RTU Communications

96 / 3.78"   Front View

20 / 0.79"   135 / 5.31"   177 / 6.97"   Side View

185 / 7.28"   91 / 3.58"   Back View

186 / 7.32"   92 / 3.62"   Panel Cutout

Unit: mm/inches

Mixing System Control by AD-4402

Ing.① Ing.② Ing.③ Ing.④

Filling Gate

- Direct Control up to 10 Material Hoppers
- Full, Medium, Dribble Flow Filling Control

Mixer
Mixing Fan
Exhaust Gate

Recipe1

Material 5 200kg
Material 10 50kg
Material 3 80kg

Maximum 10 Material Code Controlled

Up to 100 Recipe Combinations

All the relay boards, field bus-interface boards are optional. The necessary software is built-in.

Nozzle Control Application

Nozzle down · Supply start · Dribble flow ends · Nozzle up · Judgement

This output signal controls the nozzle's movement during filling weighing, which can protect liquid or powder material from contamination. The nozzle movement output signal can be used as a dust-separator movement signal.

Control output signal for supply

Nozzle down output signal

Bin-Gate Timer
At the judgement, if the supply is short, the re-supply will work until the target amount is supplied.

High Communication Capability

Standard RS-485

RS-485

PLC

RS-485 Interface
- Network up to 32 Units
- PLC, PC Direct Connection
- Lower Control System Costs

Up to 32 Units

Field Bus Network

★Expands your network
★Simple wiring between modules in the system
★Easy signal upload and download
★Lighter load on PLC

PLC
Easy maintenance

Field Bus (CC-Link DeviceNet PROFIBUS)

Weighing Instruments   Robot & NC Machines   Measuring Instruments   Signals & Switches