

GENERAL

Badger's® Semi - Automatic Admix Dispenser is designed for use in concrete batch plants, block plants, pre-stress concrete plants or wherever the need for dispensing admixtures exists. Utilizing the flow metering system with electronic transmitter and the AC-151 semi-automatic control, these dispensers are accurate, reliable and easy to operate. Built to exacting standards of performance, these dispensers will provide dependable service in all types of batch plant environments.

The dispenser is available in various sizes from 30 oz. to 30 gal. It can be operated in either automatic or manual modes.

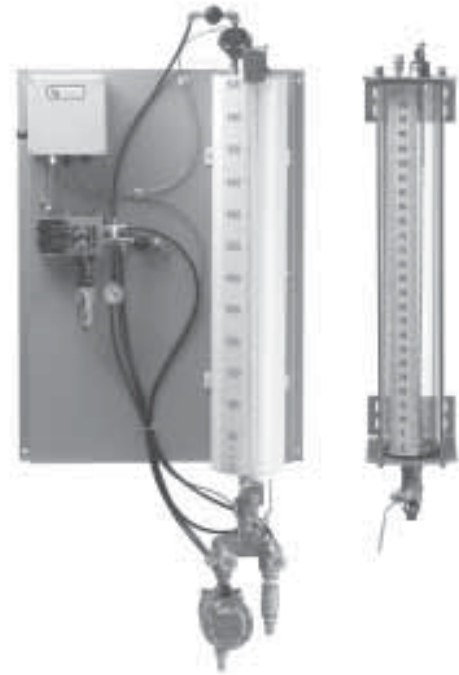
Pre-mounted on a steel back plate, the dispenser is fully wired, pre-tested and ready for installation. The measuring unit can be specified in either a bottom fill, bottom discharge or an optional bottom fill, top discharge configuration. A washout option is also available. Badger's dispenser can be custom tailored to meet your specific dispensing needs.

Available options and accessories include Diaphragm Pump Assembly, Pump Drum Assembly, pre-wired control cable, cut to specified length, 3/8" poly tubing in 100 ft. lengths and 3/4" or 1" black rubber hose in 50 ft. lengths.

OPERATION

Operation of the dispenser is achieved through the use of the AC-151 semi-automatic control. While operating in either automatic or manual modes the AC-151 has the ability to batch admixtures in total ounces, ounces/100wt, or ounces/cu.yd.. The AC-151 can also electronically compensate for meter and system variances.

A programmable, timed discharge feature allows the installer to select the amount of time, from 1 to 99 seconds. The dispenser will continue in the discharge cycle, after the zero



point has been reached. This allows for blowing fluid lines and hoses clear. Other features include a fail safe that will stop the dispensing operation if the pulse output from flow metering system is interrupted. Also a discharge hold, allowing for manual control of the discharge cycle, and LED indication of each dispensing cycle.

The dispensing operation can also be done in the manual mode, giving the operator complete control over each dispensing cycle.

FEATURES

- **Batching in total ounces, ounces/100wt or ounces/cu. yd.**
- **Electronic compensation for meter & system variances.**
- **Programmable timed delay discharge.**
- **System fail safe shutdown.**
- **Available in various sizes. (Consult factory)**
- **Optional visual verification - MEASURE RITE® site tube assembly**

SPECIFICATIONS

Measuring Unit

Zero & Overfill Probes: 316 stainless steel, electrically insulated

Measuring Unit Material: Available in sizes ranging from 30 oz. to 30 gal. Also available in various materials and pressure ranges. (Consult factory for your specific requirements.)

Solenoid Valves

Type: 4-Way
Voltage Rating: 120 VAC
Operating Pressure Range: 20 PSI to 140 PSI (Valve Rating)
Override: Manual, non-locking

Liquid Valves

3/4" or 1" full ported pneumatic valves used for fill and discharge.

Back Plate Dimensions

120 - 350 oz. - 20" x 37"

600 - 950 oz. - 26" x 37"

1425 oz. - 26" x 49"

1900 oz. - 26" x 61"

Also available in PVC

Flow Meter

Materials: Housing - Bronze
Chamber & Disc - High Performance Resin
Other - 316 stainless steel

Size: 5/8"

Flow Range: 1 to 30 GPM

Accuracy: $\pm 1\%$ (Range 3 - 20 GPM)
 $\pm 2\%$ (Accuracy over full range)

Repeatability: 0.5%

Operating Temp.: 32° to 250° F

Operating Pressure: 150 PSI (Meter Rating)

Max. Pressure Loss: 9 PSI at full flow

FLOW TRANSMITTER

Materials: High impact, reinforced Nylon

Mounting: Bayonet type with set screw, 360° orientation

Connections: Two 1/2" NPT threaded conduit ports

Protection: NEMA 4X (water tight & corrosion proof)

OPERATION

Sensor: Magneto-resistive sensor

Scaling & Calibration: (4) 10 position rotary switches

Operating Temperatures:

Scaler Board: - 4° to +185° F

Sensor: - 4° to + 250° F

ELECTRICAL

DC Input Power: 12 to 24 VDC

DC Output: Opto-Isolated open collector NPN transistor

Transistor Rating: 50 mA @ 24 VDC

AC Input Power: 115 VAC $\pm 15\%$

AC Output: Opto-isolated Zero Crossing Triac

Triac Rating: 130 V RMS @ 500 mA

Scaling Resolution: 0.0001 to 0.9999

INSERT SPECIFICATIONS FOR MODEL AC-151 ADMIX CONTROL

Power Supply: 117 VAC $\pm 10\%$
Power entry module with power cord and Off/on switch provided

Enclosure: Non-metallic Nema 4X Rated
3 - 1/2" threaded conduit opening
1 - 3/4" threaded conduit opening

Front Panel Switches and Displays:

Membrane switch with feedback and LED indication.
Display, 4 character LED.

Outputs: Fused I/O module, 117 VAC 5 Amp max.
For fill and discharge solenoid valves.

Inputs: 117 VAC for zero, overfill, and meter.
Note that controller requires probe amplifier for interface between dispenser and itself.

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