CONCRETE BATCH CONTROLLERS

Concrete Batch Controllers

TABLE OF CONTENTS Concrete Batch Controllers......309 1280 FlexWeigh Systems Concrete Batcher310 Decumulative/Accumulative Batcher Concrete Batcher Questionnaire......312

1280 FlexWeigh Systems Concrete Batcher

Decumulative/Accumulative Batcher



Standard Features

- Powered by 1280 Enterprise[™] Series indicator
- · Large color touchscreen display
- · Remote batching through web server integration
- Front panel control switches and emergency stop
- · Automatic or manual batching modes
- · Configurable from two to five scales (one to two cement scales, and one to three material bins)
- Up to four admixes (bottled or direct)
- Manual entry of moisture compensation percentage
- · Metered water controlled by onboard DIO
- Import/export databases via USB, Revolution® or Interchange software
- · Configurable batch transaction ticket
- Storage for 1,000 transactions, 1,000 mix designs and 500 customers
- · Available with English or Spanish operation and in imperial or metric measurements

Options

- · Desktop stand
- Sun visor

Part Number/Price

Part #	Description	Price
208907	Decumulative batcher	\$15,950.00
216733	Accumulative batcher	\$16,950.00
212392	Sun visor	\$500.00
212234	Desktop kiosk stand	\$450.00

Specifications

Power:

100 to 240 VAC; 50/60 Hz

Excitation Voltage:

10 VDC (± 0.5 Volts)

 16×350 ohm or 32×700 ohm load cells per A/D card

Analog Signal Input Range:

-60 mV to 60 mV

Analog Signal Sensitivity:

 $0.3~\mu V/graduation$ minimum at 7.5 to 120 Hz 1.0 µV/graduation recommended

A/D Sample Rate:

7.5 to 960 Hz, software selectable

Resolution:

Internal: 8,000,000 counts Display: 1,000,000

System Linearity:

± 0.01% full scale

Communication Ports:

Port 1 & 2: Full duplex RS-232 with CTS/RTS, RS-422/485

Baud Rate: 1200 to 115200

Port 3: USB 2.0 Device (Micro)

USB Host: (2) Type A Connectors max 500 mA

Ethernet: Wired 10/100 Auto-MDX Ethernet: Wireless 802.11 b/g/n 2.4 GHz

Onboard:

Selectable filters: Three stage, adaptive or damping Embedded Linux® OS

8 GB eMMC (system use)

1 GB DDR3 RAM

460 MB onboard database (SQLite) storage

Up to 32 GB micro SD card

Display:

12-inch, 1280 × 800 pixel, 1,500 NIT

Temperature:

Certified: 14 °F to 104 °F (-10 °C to 40 °C) Operating: -4 °F to 131 °F (-20 °C to 55 °C)

Ratina/Material:

Painted mild steel enclosure NEMA Type 4; IP66

Dimensions:

 $20 \times 20 \times 8$ in

Warranty:

Two-year limited

EMC Immunity:

EN 50082 Part 2 IEC

CONCRETE BATCH CONTROLLERS

1280 FlexWeigh Systems Concrete Batcher Decumulative/Accumulative Batcher

Front Panel Switches				
	Decumulative Batcher	Accumulative Batcher		
Auto/Manual	х	х		
E-Stop	х	X		
Conveyor Start/Run*	х	х		
Bin 1*	х	X		
Bin 2*	х	х		
Bin 3*	х	x		
Cement 1*	х	х		
Cement 2*	х	х		
Water*	х	x		
Admix 1*	х	х		
Admix 2*	х	х		
Admix 3*	х	х		
Admix 4*	х	х		
Aggregate Hopper		х		
Cement Hopper		X		

^{*} Available in Manual Mode

Outputs		
	Decumulative Batcher	Accumulative Batcher
Conveyor Start/Run	Х	х
Alarm/Horn	Х	Х
Bin 1 Discharge	Х	Х
Bin 1 Vibration	X	X
Bin 2 Discharge	Х	X
Bin 2 Vibration	X	X
Bin 3 Discharge Bin 3 Vibration	X	X
Cement Hopper	Χ	Х
Gate (Close)		Х
Cement Hopper Gate (Open)		Х
Cement Silo 1 Feed	Х	х
Cement Silo 2 Feed	х	Х
Cement Weigh Hopper Air		Х
Cement Weigh Hopper Vibration		Х
Cement Silo 1 Air	Х	х
Cement Silo 2 Air	Х	Х
Water Fill/Feed	Х	Х
Weighed Water Discharge Gate		Х
Admixture 1 Discharge	Х	х
Admixture 1 Fill/Feed	Х	х
Admixture 2 Discharge	Х	х
Admixture 2 Fill/Feed	х	х
Admixture 3 Discharge	Х	х
Admixture 3 Fill/Feed	Х	х
Admixture 4 Discharge	х	х
Admixture 4 Fill/Feed	х	х
Aggregate Hopper Gate (Close)		Х
Aggregate Hopper Gate (Open)		Х
Aggregate Hopper Vibration		х
Aggregate Weigh Hopper Air		х
Dust Collector 1	Х	Х
Dust Collector 2	Х	Х

Inputs				
	Decumulative Batcher	Accumulative Batcher		
Admixture 1 Bottle Empty	х	х		
Admixture 1 Pulse	х	Х		
Admixture 2 Bottle Empty	х	х		
Admixture 2 Pulse	х	Х		
Admixture 3 Bottle Empty	х	х		
Admixture 3 Pulse	х	Х		
Admixture 4 Bottle Empty	х	х		
Admixture 4 Pulse	х	Х		
Manual Mode	х	Х		
Air Pressure OK	х	Х		
E-Stop	х	Х		
Water Meter Pulse	х	Х		
Conveyor Running	x	х		
Weighed Water Gate Closed Limit Switch		х		
Aggregate Hopper Gate Closed Limit Switch		Х		
Cement Hopper Gate Closed Limit Switch		Х		

Concrete Batcher Questionnaire



Company: Date: Phone: Fax: Email: 1. Tell Us About Your Current System Check boxes in either Accumulative or Decumulative to reflect your current system. Type in any bin materials you use. Accumulative System Plant batch size requirements (cubic units): Maximum Minimum OUTPUTS' OUTPUTS' OUTPUTS' OUTPUTS' 1 2" 1 2" 1 2" OUTPUTS' 1 1 2" OUTPUTS' OUTPUTS' OUTPUTS' 1 1 2" OUTPUTS'	WATER Weighed Metered
T. Tell Us About Your Current System Check boxes in either Accumulative or Decumulative to reflect your current system. Type in any bin materials you use. Accumulative System Bin 1 Bin 2 Bin 3 Silo 1 Silo 2 CEMENT CEMENT CEMENT CEMENT OUTPUTS' 1 2** 1 2** OUTPUTS' OUTPUTS' 1 2** OUTPUTS' OUTPUTS' 1 2** OUTPUTS' OUTPUTS'	Weighed
Accumulative System Plant batch size requirements (cubic units): Maximum Minimum OUTPUTS*	Weighed
Plant batch size requirements (cubic units): Maximum OUTPUTS*	Weighed
ELECTRICAL REQUIREMENTS 1 output: Voltage on to open, voltage signal to open, voltage signal to close OUTPUTS	Weighed
ELECTRICAL REQUIREMENTS 1 outputs: Voltage on to open, voltage off to close OUTPUTS	
ELECTRICAL REQUIREMENTS 1 output: Voltage on to open, voltage signal to open, voltage signal to close OUTPUTS	
ELECTRICAL REQUIREMENTS 1 output: Voltage on to open, voltage off to close 2 outputs: Voltage signal to open, voltage signal to close OUTPUTS OUTPUTS* OUTPUTS*	
ELECTRICAL REQUIREMENTS 1 output: Voltage on to open, voltage off to close 2 outputs: Voltage signal to open, voltage signal to close OUTPUTS	
1 output: Voltage on to open, voltage off to close 2 outputs: Voltage signal to open, voltage signal to close OUTPUTS*	
**Customization of standard product required	
	Silo 2
Plant batch size requirements (cubic units): Bin 1 Bin 2 Bin 3	MENT
SAND WATER Weighed**	
Minimum	
OUTPUTS* OUTPUTS* OUTPUTS* OUTPUTS* OUTPUTS* OUTPUTS*	TPUTS* 1 2**

2. Weigh Ticket Information

Ticket example is shown below. Please include any custom information in the space below and provide an example ticket.

Ticket #: 3 Customer: Rice Lake Weighing Systems Truck #: 1258 Mix ID: 1 Mix Name: Test Mixture Quantity: 1.0 CY Ingredient Target Actual %TOL Sand 1200 lb 1195 lb -0.4% Stone2 1000 lb 1010 lb 1.0% Stone1 800 lb 800 lb 0.0% Stone1 800 lb 400 lb 0.0% Cement 400 lb 400 lb 0.0% Flyash 200 lb 205 lb 2.5% Admix 1 10 oz 11 oz 10.0% Admix 2 5 oz 5 oz 0.0% Admix 3 6 oz 6 oz 0.0% Admix 4 6 oz 6 oz 0.0% Water 50 gal 50 gal 0.0%
Customer: Rice Lake Weighing Systems Truck #: 1258 Mix ID: 1 Mix Name: Test Mixture Quantity: 1.0 CY Ingredient Target Actual \$TOL Sand 1200 lb 1195 lb -0.4% Stone2 1000 lb 1010 lb 1.0% Stone1 800 lb 800 lb 0.0% Cement 400 lb 400 lb 0.0% FlyAsh 200 lb 205 lb 2.5% Admix 1 10 02 11 02 10.0% Admix 2 5 02 5 02 0.0% Admix 4 6 02 6 02 0.0% Water 50 gal 50 gal 0.0%
Mix Name: Test Mixture Quantity: 1.0 CY Ingredient Target Actual %TOL Sand 1200 lb 1195 lb -0.4% Stone2 1000 lb 1010 lb 1.0% Stone1 800 lb 800 lb 0.0% Cement 400 lb 400 lb 0.0% FlyAsh 200 lb 205 lb 2.5% Admix 1 10 oz 11 oz 10.0% Admix 2 5 oz 5 oz 0.0% Admix 3 6 oz 6 oz 0.0% Admix 4 6 oz 6 oz 0.0% Water 50 gal 50 gal 50 gal 0.0%
Sand 1200 lb 1195 lb -0.4% Stone2 1000 lb 1010 lb 1.0% Stone1 800 lb 800 lb 0.0% Cement 400 lb 400 lb 0.0% FlyAsh 200 lb 205 lb 2.5% Admix 1 10 c 11 c 10.0% Admix 2 5 cz 5 cz 0.0% Admix 3 6 cz 6 cz 0.0% Admix 4 6 cz 6 cz 0.0% Water 50 gal 50 gal 0.0%
Stone2 1000 lb 1010 lb 1.0%
Stone2 1000 lb 1010 lb 1.0%
Stone1
Cement 400 lb 400 lb 0.0% FlyAsh 200 lb 205 lb 2.5% Admix 1 10 oz 11 oz 10.0% Admix 2 5 oz 5 oz 0.0% Admix 3 6 oz 6 oz 0.0% Admix 4 6 oz 6 oz 0.0% Water 50 gal 50 gal 0.0%
FlyAsh 200 lb 205 lb 2.5% Admix 1 10 cz 11 cz 10.0% Admix 2 5 cz 5 cz 0.0% Admix 3 6 cz 6 cz 0.0% Admix 4 6 cz 6 cz 0.0% Water 50 gal 50 gal 0.0%
Admix 1 10 oz 11 oz 10.0% Admix 2 5 oz 5 oz 0.0% Admix 3 6 oz 6 oz 0.0% Admix 4 6 oz 6 oz 0.0% Water 50 gal 50 gal 0.0%
Admix 2 5 oz 5 oz 0.0% Admix 3 6 oz 6 oz 0.0% Admix 4 6 oz 6 oz 0.0% Water 50 gal 50 gal 0.0%
Admix 3 6 oz 6 oz 0.0% Admix 4 6 oz 6 oz 0.0% Water 50 gal 50 gal 0.0%
Admix 4 6 oz 6 oz 0.0% Water 50 gal 50 gal 0.0%
Water 50 gal 50 gal 0.0%
08:08 AM 12/13/2024

3. Input Requirements: Please indicate all the applicable inputs for this system.

	Decumulative Batcher	Accumulative Batcher		Decumulative Batcher	Accumulative Batcher
Admixture 1 Bottle Empty			Air Pressure OK		
Admixture 1 Pulse Meter			E-Stop		
Admixture 2 Bottle Empty			Water Meter Pulse		
Admixture 2 Pulse Meter			Conveyor Running		
Admixture 3 Bottle Empty			Weighed Water Gate Closed Limit Switch		
Admixture 3 Pulse Meter					
Admixture 4 Bottle Empty			Aggregate Hopper Gate Closed Limit Switch		
Admixture 4 Pulse Meter			Cement Hopper Gate Closed		
Manual Mode			Limit Switch		
Are there any additional 120V or 240V input requirements not mentioned in the previous list such as sensors, switches, limit switches, photo eyes, etc? If so, please specify in the space provided.					

Form #0609 Rev. 7 09/2025 Page 2 of 5

4. Output Requirements:

Please indicate all the applicable outputs for this system.

	Decumulative Batcher	Accumulative Batcher		Decumulative Batcher	Accumulative Batcher
Conveyor Start/Run			Water Fill/Feed		
Alarm/Horn			Weighed Water Discharge Gate		
Bin 1 Discharge			Admixture 1 Discharge		
Bin 1 Vibration			Admixture 1 Fill/Feed		
Bin 2 Discharge			Admixture 2 Discharge		
Bin 2 Vibration			Admixture 2 Fill/Feed		
Bin 3 Discharge			Admixture 3 Discharge		
Bin 3 Vibration			Admixture 3 Fill/Feed		
Cement Hopper Gate (Close)			Admixture 4 Discharge		
Cement Hopper Gate (Open)			Admixture 4 Fill/Feed		
Cement Silo 1 Feed			Aggregate Hopper Gate (Close)		
Cement Silo 2 Feed			Aggregate Hopper Gate (Open)		
Cement Weigh Hopper Air			Aggregate Hopper Vibration		
Cement Weigh Hopper Vibration			Aggregate Weigh Hopper Air		
Cement Silo 1 Air			Dust Collector 1		
Cement Silo 2 Air			Dust Collector 2		
Are there any additional 120V or 240V output requirements that were not covered in the previous list, including but not limited to air solenoids, vibrators, aerators, motor starters, horns or lights? If so, please specify in the space provided.					

5. Weighing and Moving Aggregates and Cements:

5a.	Apart from a feed gate and gravity, does the aggregate require any equipment to move it from a surge bin into the weigh hopper?	5b.	List equipment used to move aggregate into the truck or mixer. For example: "Gate opens releasing product. Product travels via conveyor to truck."
5c.	List equipment used to move cement from silo into weigh hopper:	5d.	List equipment used to move cement from weigh hopper into the truck/mixer:
	6. Admixtur	es a	nd Water
6a.	Does the process use more than the standard front- and tail-water additions? Yes No	6b.	How many admixtures does this system use? NOTE: Four is the default maximum.
	If yes, describe:		How Many
		6c.	Describe any mix design methods used (bottle or direct).

Form #0609 Rev. 7 09/2025 Page 4 of 5

7. Drawing of Plant

A drawing helps show system integration and design. Please include the location of all moving parts (gates, conveyors, augers), sensors, load cells, bins, silos, water and admixture lines.

