

CB-2 Concrete Batch Controller

Multi-Scale Automated Batching System



Standard Features

Note: Factory field installation required, minimum three days on site

- One aggregate and one cement scale, water scale is standard for 93503/93504
- Manual override controls
- Batch ticket printing
- One megabyte data storage
- Material usage by day/week/month/year and inventory on-hand with reporting
- Automatic aeration control for cement silos and weigh hoppers
- Multiple freefall values per material
- Split batching for loads larger than plant capacity with pre-weighing next batch for maximum throughput
- Automatic dust collection outputs
- Order or load based batching
- US standard or metric (SI) operation
- Aggregate conveyor/skiphoist controls
- Loss-in-weight aggregate dispensing
- Four dual or eight single speed aggregates
- Four dual or eight single speed cements
- Weighed water with water reservoir
- Four or eight auxiliary manual controls
- Continuous batching with mixer controls for central mix block or precast plants

Optional Features

- Dual moisture probe interface (supports 4-20 mA or 0-10 V probes)
- Ethernet TCP/IP
- Spanish user program

Specifications: 920i

Materials:

8 single speed aggregates or 4 dual-speed 8 single or 4 dual-speed cements
Hot and cold metered or weighed water delivered in two additions
6 metered admixtures configurable as bottle or direct feed

1 Megabyte Data Storage:

2,200 mix designs, 750 customers, 125 trucks, 99 materials, 400 orders

State Modes:

MnDOT

Line Voltages:

115 or 230 VAC

Frequency:

50 or 60 Hz

Power Consumption:

340 mA, maximum at 115 VAC (26 W) / 240 mA at 230 VAC (26 W)

Full Scale Input Signal:

Up to 40 mV

Excitation Voltage:

10 ±0.5 VDC, 16 x 350 Ω or 32 x 700 Ω load cells per A/D card

Specifications Continued

Sense Amplifier:

Differential amplifier with four and six wire sensing

Analog Signal Input Range:

-10 mV to +40 mV

Analog Signal Sensitivity:

0.3 μV/graduation minimum at 7.5 Hz
1.0 μV/graduation typical at 120 Hz
4.0 μV/graduation typical at 960 Hz

A/D Sample Rate:

7.5 to 960 Hz, software selectable (120 recommended)

Calibration Method:

Software, contents stored in flash memory

Input Overload:

Load cell signal lines ±10 V continuous, ESD protected

RFI/EMI Protection:

Signal, excitation and sense lines protected

Analog Output:

Option card: 16 bit resolution DAC
Load resistance: 1.1 KΩ minimum
Voltage output: 0-10 VDC
Current output: 0-20 mA
External loop resistance: 840 Ω maximum

Microcomputer:

Motorola ColdFire® MCF5307 main processor
at 90 MHz

Digital Filter:

Software selectable: 1-256, enhanced RATTLETRAP®
hybrid digital filtering

Display:

(W x H) 4.6 in x 3.4 in (116 mm x 86 mm),
320 x 240 pixel VGA liquid crystal display (LCD)
module with adjustable contrast, 75 Hz scan rate
26,000 cd/m² brightness

Keyboard:

27-key membrane panel, PS/2 port for external
keyboard connection

Warranty:

Two-year limited warranty

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Part Number/Price

Part#	Description	Est. Weight	Price
93501	CB-2 Concrete Batching Controller Metered Water/4 Cement/8 Aggregate/6 Admix 115 VAC	180 lb	\$19,565.00
93502	CB-2 Concrete Batching Controller Metered Water/4 Cement/8 Aggregate/6 Admix 230 VAC	180 lb	\$19,565.00
93503	CB-2 Concrete Batching Controller Weighed Water/4 Cement/8 Aggregate/6 Admix 115 VAC	180 lb	\$19,565.00
93504	CB-2 Concrete Batching Controller Weighed Water/4 Cement/8 Aggregate/6 Admix 230 VAC	180 lb	\$19,565.00
FLD-INSTALL	Factory field installation required (minimum 3 days on site)		\$1,320.00 per day
FLD-INSTALLSA	Factory field installation, Saturday		\$1,980.00
FLD-INSTALLSU	Factory field installation, Sunday		\$2,640.00

Options/Accessories

Part #	Description	Price
93511	Dual-moisture probe input (factory installed option)	\$520.00
110783	Load mix designs and test prior to shipping	N/C
113872	Phone support (4 hours)	\$395.00

