

# CB-3 Concrete Batch Controller

Multi-Scale Automated Batching System with PC Program



## Standard Features

*(Note: Factory field installation required, minimum of three days on-site)*

- One aggregate and one cement scale, water scale is standard for 177746/177747
- Manual override controls
- Customized batch ticket printing
- 128 gigabyte 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
- Ethernet TCP/IP
- Up to six admixtures
- Multi-user interface
- Dual moisture probe interface supports 4-20 mA

## Optional Features

- Monitor
- Keyboard
- USB hub four ports
- USB WIFI don-gal
- Mouse
- Additional four admixture control box
- Portable batch plant system
- Control panel for remote batching

## Specifications: Industrial PC

### Model:

B&R APC2100

### Processor Type:

Intel Atom E3845  
Quad Core

### Data Storage Type:

Industrial 5CFast Card

## Specifications: Industrial PC (cont)

### Data Storage Capacity:

128 GB

### Interfaces:

Two USB  
Two Ethernet

### Monitor Output:

One SDL/DVI

### Operating System:

Linux Ubuntu 16.04

### Voltage:

24 VDC

## Specifications: 920i

### Line Voltages:

115 or 230 VAC

### Frequency:

50 or 60 Hz

### Power Consumption:

500 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

### Sense Amplifier:

Differential amplifier with 4 and 6 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:

60 Hz

### 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

### 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/m<sup>2</sup> brightness

### Keyboard:

27-key membrane panel

### Warranty:

Two-year limited warranty

# CB-3 Concrete Batch Controller

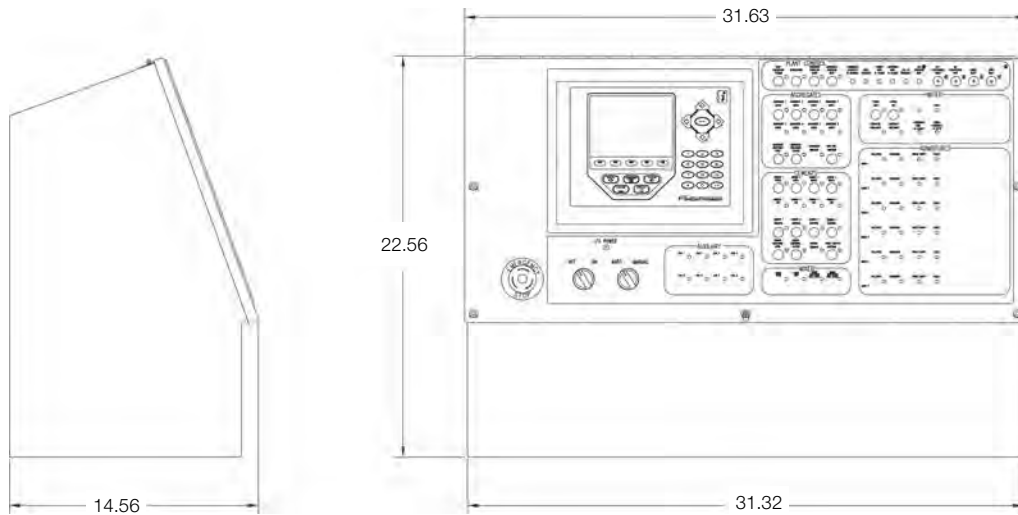
Multi-Scale Automated Batching System with PC Program

## Part Number/Price

Part#	Description	Est. Weight	Price
177746	CB-3 concrete batching controller, metered water, PC included	180 lb	\$22,500.00
177747	CB-3 concrete batching controller, weighed water, PC included	180 lb	\$22,995.00
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
184716	Upgrade kit CB-1 to CB-3, PC included	Consult
175877	Upgrade kit CB-2 to CB-3, PC included	\$9,445.00
179209	Accessory kit (includes monitor, keyboard, USB hub and mouse)	\$302.00
179210	Monitor, Acer	\$240.00
179211	Keyboard, Microsoft	\$45.00
179212	Mouse, Microsoft	\$42.00
185667	USB Hub	\$13.95
186277	Wireless USB adapter WIFI	\$60.00



CB-3 Ticket Output



CB-3 Truck Monitoring Screen



CB-3 Batcher Screen