CB-3 Concrete Batch Controller Decumulative Cement Silo Scale High Level Alarm

This document describes enabling and configuring the automatic decumulative silo scale alarm on the CB3. The vPanel displays as follows when the *Silo Fill Warning* is not enabled.

ravel Scale	Accrecate		
7080 Lb	Gravel Gravel Free Vibiate	Metered Water Pulse Water Pulse C	0.0 gl
ck 2 Scole Libits: 0 Corons: 5 7080 Lb	Rock 2 Feet Value	Admixtures	
nd Scale Lable: 0 Gross S 7080 L b	Sand Sand Reed Vibrate	Admix 1 Fit Discharge Admix 1 Pulse	0.02 sprint
11 Scale	Cement Cem 1 Cem 1 Dust 1 Fast Aeration Cellection	Admix 3 Fill Discharge Admix 3 Pulse Discharge Emyty Pulse Admix 4 Fill Discharge Admix 4 Pulse	€ poles 0.0 oz
10620 Lb	Cem 2 Cem 2 Duis 2 Fast Arradion Collection	Admin S Meine Pulse Fill Bins Meine Pulse	8pdan ***

To enable the Silo Fill Warning:

- 1. Click on Settings.
- 2. Click on the *Equipment* tab, then click to check the box next to *Silo Fill Warning*.
- 3. Enter the desired warning time (default 3 seconds) in the Silo Fill Warning Duration field.
- 4. Click on Save Changes and then click on Exit.

	Batching: Enter Name	Load	is Batcher	Job/Order	Customers	Mix Design
3	Temp: NA vPanel	Fickets Trucks/	Drivers Produc	ts Inventory	Settings Ma	terials Scales
*						
	Settings Company/Site Equipment Batching	Printing Other	Features			
	Minimum Batch Size: 0.500	- mang outer	realized	Continue	us Batching:	
	Maximum Batch Size: 12.000			S Four Dual Speed	Aggregates:	
	Auto Agg Conveyor:			Three Dual Spe Air Pres	eed Cements:	
	Conveyor Warning (sec): 2			Cem	Batch Auger	
	Conveyor Runout (sec): 12 Auto Truck Boot:			Live Botton	Num of Bins: 4	
_	Tele Boot Dn Tm (msec): 2000			1	Num of Silos: 2 1	
	Tele Boot Up Tm (msec): 8000			Num of	Admix Equp: 6	•
	Auto Dust Collector: Auto Cement Aeration:					
	EStop Check Filter: 3					
<u> </u>	Silo Fill Warning:					
	- · · · · ·					
	Exit				Save	e Changes









The warning is activated according to percentage of the scale capacity. The scale capacity is located in the Scales menu and should match the maximum capacity the scale has been calibrated for.

- 5. Open the scales menu.
- 6. Record the capacity for each cement scale.
- 7. Click on Materials.

CB-3 Ve	rsion 1.2.5									
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	Enter Name		Loads Bat	cher	Job/Order	Customers	Mix Design P	roject Qte	RICE LAI	KE
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	Scales	D (Decord)								×
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	Settle Time*	3 Minimum Settle Time (sec)	Slow Fi	II Wt 50	00 amount to weigh on slow	ipeed	Discharge Mod	e Scale % Remaining When/Order to discharge	•	
\bigcirc	Start Vib Wt*	500 Weakt at which vib is energized	Smart		ng multiple SmarttO boards	7 (1-4)	Target Rate	e* 150 Desired discharge rate (Ib/s)		
0000	WFO Wt	100	Scale	Port 1	Initial port receiving the weight	stream	Follow Scal	e Agg 1 Scale		
	Tail/Hold Wt*	1000	E	Baud 96	ect baud rate (default=960	0	Start Dis W	t* 0 Wt remaining when discharge s	tarts	
>	Cleanout Time*	3	End To	oken Cl	R •	uen .	Start Dis %	6* 80 % remaining when discharge st	arts	
	Zero Tol Wt*	10	Wt Fo	rmat Co	pamed weight format	ls (Rice Lake)	Dis Dela	y* 14 Discharge delay (s)		
	Exit	Weight considered close enough to 0					Gates	Flash Comm Settings	Save Changes	
	ID Name		Capacity Set	tle(s)	Start Aux	VFO Ze	roTol Dis Rate	(lb/s) Slow Fill	Start Dis%	
	1	Agg 1 Scale	80000	3	2000	400	40	600 2000	100	
	2	Cement Scale	40000	3	500	100	10	150 500	80	
	4	Agg 2 Scale	80000	3	2000	400	40	600 2000	100	
6	6	Cem2 Scale	e 40000	3	500	100	10	150 500	80	



8. Click on the *Cement* tab and then click on *Silos*.

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- 9. For each silo, set the capacity to match its scale capacity. Enter desired percent value for when the warning turns on. For example: if the scale capacity is 40,000 lb and the warning value is set for 80%, the warning activates when the cement level reaches 32,000 lb.
- 10. Click on Save Changes and close the Silo and Materials menus.

The following example displays an active alarm on the vPanel with a 40,000 lb scale capacity and an 80% warning value for each silo.





To configure existing horn as silo high alarm:

- 1. Click on **System Admin**.
- 2. Click on *I/O Map*.
- 3. Scroll down and change Aux 1 and Aux 2 to Rack 1, Term 37, Pos 19 for the IO assignment.
- 4. Click Save Changes after each one is changed.

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To configure corresponding relay outputs for individual alarms:

- 1. Click on System Admin.
- 2. Click on I/O Map.
- 3. Scroll down and change the *IO* point assignment of *Aux1* to *Rack 1, term 41, Pos 21*.
- 4. Click Save Changes.
- 5. Change the *IO* point assignment of *Aux 2* to *Rack 1, Term 43, Pos 22*.
- 6. Click Save Changes.

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Download DB Export DB	1	.61	Aux 3	Output	Rack 1, Term 45 - Pos 23	0.0 oz



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