

Batch controlling in harsh conditions

Problem case

“Strong Manufacturing” is a leading manufacturer of equipment for mixing and pumping lightweight insulating concrete and floor underlayments. From a mixer compact enough to fit in the bed of a small pickup to a self-contained machine to mix and pump 100 yards per hour. They have the most affordable, reliable and efficient concrete mixers in the market.

They required an accurate and user-friendly batch controller for supplying the precise amount of water to produce the required concrete mix. Because of the heavy duty applications they needed a product with a high ingress protection to prevent cement powder and water hose downs penetrating the instrumentation.

Fluidwell solution

It was accomplished with a Fluidwell Fo30 Batch Controller which is the most rugged in the market. It has a robust IP66, IP67 (NEMA Type4X) field enclosure. It withstands harsh weather conditions like rain, snow, salty atmospheres and temperatures between -40°C up to +80°C (-40°F up to 176°F). It can easily be cleaned with powerful water jets.

The user-friendly operation on the Fo30 allows an easy change of the preset value when necessary, it can be done by every operator, saving cost and time.

The Fo30 batch controller has a unique function, it knows from past batches that an overrun can be expected and automatically calculates the “overrun cut-off time” turning off the relay that controls the pump just in time, that this excess flow will be counted in the batch process, resulting in an accurate batch every time.

Results

- ✓ A satisfied customer with reliable and efficient concrete mixers.
- ✓ Saves time, cost and aggravation as it is easy to clean with water hose downs.
- ✓ Easy to use, no time consuming training or difficult instruction manuals required.
- ✓ An accurate batch every time due to self-learning overrun correction.

More advantages

During batching, the actual display value can count up to show the batch quantity or countdown to display the remaining quantity. Mounting, installing and programming the F-series is so easy and user-friendly, it is done swiftly by their own crew, saving cost and troubles of arranging expensive specialists. A white backlight is available for applications where increased visibility is requested.

Additionally, the Fluidwell controllers do not require expensive maintenance. A periodic check on the casing, cable glands and wiring is more than enough.

More information: [Information and datasheet Fo30](#)

[Video of this concrete mixing application \(YouTube\)](#)

Strong Manufacturing

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Fo30 Batch Controller



Mobile concrete mixer



Concrete mixing video

