

Concrete Meter Overview



**Precision Measurement for
Ready-Mix and Concrete Batch Plants.**



Batching System Components

PC200 Process Controller

The Model PC200 is a microprocessor-driven instrument designed for batching and filling both small and large quantities, as well as displaying total, accumulated total and flow rate. Designed to interface with our complete line of industrial flow meters, it totalizes, indicates and controls fluid flows. The PC200 has a rugged easy to use numerical keyboard in a robust enclosure with proper mechanical relays. Featuring a large easy to read display with clear operator information where all relevant data can be monitored in one glance.

The PC200 operates using input signals in the form of pulses from open collector transistors or dry contact closures that can be scaled to any unit of measure for totalization, instantaneous rate of flow indication and bidirectional batch counting. At the preset quantity, a relay signal output can be initiated to control valves, motors, alarms and other process control devices.



Batch Controllers

- NEMA 4X protection
- Fully compatible with Badger Meter industrial turbo and electro-magnetic meters



Electronic Scalable Transmitters: Models PFT-1E and PFT-4E

Add scaling capabilities to any preset counter or process controller with the PFT-1E and PFT-4E electronic pulse transmitters. Designed for totalizing, rate calculation or batching, these electronic transmitters can be scaled to almost any pulse rate, allowing recalibration by resetting the scale factor with four rotary switches. The transmitters are equipped with an LED indicator for visual pulse detection, optically isolated outputs to prevent false counts due to line noise and solid-state circuitry for long life. The sensor can withstand fluid temperatures up to 250 degrees Fahrenheit. Its rugged, high-impact-resistant housing provides NEMA 4X (watertight and corrosion proof) protection. Use the PFT-1E with disc meters and the PFT-4E with industrial turbo meters.

Electronic Unscaled Pulse Transmitters: Models PFT-2E and PFT-3E

Improve performance over mechanical transmitters by adding unscaled pulse outputs with the PFT-2E and PFT-3E electronic transmitters. Models PFT-2E and PFT-3E are protected with a rugged, high-impact-resistant NEMA 4X (watertight and corrosion proof) housing. All models can withstand fluid temperatures up to 250 degrees Fahrenheit and have solid-state components for a long life. Designed for turbo and disc meters, these transmitters interface with the PC200 controller and other devices with similar operating characteristics.

Electronic Transmitters

- Designed for use with turbine or disc meters
- Scalable and unscaled pulse models available
- Protected with rugged NEMA 4X housings



Recordall® Disc Meter

Obtain high accuracy and repeatability with the positive displacement Recordall Disc Meter. Efficient and cost effective, the disc meter seldom requires maintenance. All parts are designed and built for the most rugged applications, providing for a long life. Housing choices include rugged bronze or thermoplastic, ideal for applications with high temperatures, high pH chemicals and potential abrasives. Sizes include 1/2 to 2 inches for flow up to 170 gallons per minute and a maximum operating pressure of 150 pounds per square inch. The meter is compatible with a complete line of accessories including totalizers, electromechanical and electronic transmitters, rate of flow indicators and batch/process controllers.



Water Metering and Batching System Control

ModMAG® M7600

For excellent accuracy and repeatability in batching applications, choose the M7600 mag meter. With an accuracy of ± 0.50 percent of rate and a repeatability of ± 0.1 percent, the M7600 is ideal for clean, cold, hot and reclaimed water batching in ready-mix, precast, prestress and block plants. Its solid-state relay and open collector output easily connect to the PC200 batch controller or your existing plant control system. The open flow design with long-life corrosion-resistant liner (PTFE) keeps maintenance to a minimum for many years of trouble-free operation. Since there are no moving parts, the meter is suited for wash-out applications and helps eliminate "water hammer" damage and pressure loss. Sizes range from 1/2 to 4 inches with standard turbo meter lay lengths on 2, 3 and 4 inch sizes. This unit is also available as a meter/valve assembly.



M7600 Mag Meter

- Accuracy
- Repeatability
- Durability



Turbo Water Batching Systems

Get accurate and dependable service in all types of batch plant environments with turbo meter systems by Badger Meter. Pair our industrial turbo meter with an unscaled pulse transmitter or electronic scalable transmitter and a solenoid-controlled air-operated butterfly valve to create a reliable water batching system. The industrial turbo meters offer long lasting ceramic bearings, low pressure loss and easy field calibration. The meters are compact and easy to service without removing the meter from the line. Available sizes include 2, 3, 4 and 6 inch. The PFT-4E transmitter offers fast calibration using rotary switches. The solution is ideal for retrofits to existing systems or connection to the PC200 batch controller.



Rely on Badger Meter Flow Instrumentation

Today's industry faces accelerating demands to contain costs, reduce product variability, and meet ever-changing safety and regulatory requirements. To address these challenges, you must reap more value from every component in your systems. This system-wide scrutiny has heightened the focus on flow instrumentation in industrial process, manufacturing, commercial fluid, and precision engineering applications where flow measurement and control are critical.

You can rely on Badger Meter Flow Instrumentation for application-specific solutions that deliver accurate, timely and dependable flow data and control essential for product quality, cost control, safer operations, and regulatory compliance.





Control. Manage. Optimize.

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