

Industrial Process Controller

Model PC200

DESCRIPTION

The Badger Meter® 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. Many years of experience in the industrial market has allowed Badger Meter to incorporate features indispensable in the liquid batching and control operations.

OPERATION

Input signals in the form of pulses from open collector transistors or dry contact closures 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.

FEATURES

This product is designed with a focus on:

- Ease-of-use with the numerical keyboard.
- Ruggedness for its application with a robust enclosure, keyboard and proper mechanical relays.
- Clear operator information: all relevant data can be monitored in one glance.
- User-friendly installation with quality plug-and-play terminals; suitable for both AC and DC applications (standard).
- A wide range of inputs, outputs and functions for a broad fulfillment in many applications.

OPERATOR ALARMS

No Flow Alarm

The PC200 offers a no-flow monitoring feature: if the flow meter fails to generate a signal during a certain period of time, the unit shuts off the control outputs and brings the batch controller into HOLD and alarm mode. A "NO FLOW" alarm message displays.

Flow Rate Alarm

If, during a batch process, the actual flow rate is outside the allowed range, a "LO RATE", or "HI RATE" alarm message displays, indicating the type of alarm: "LO RATE", "HI RATE".



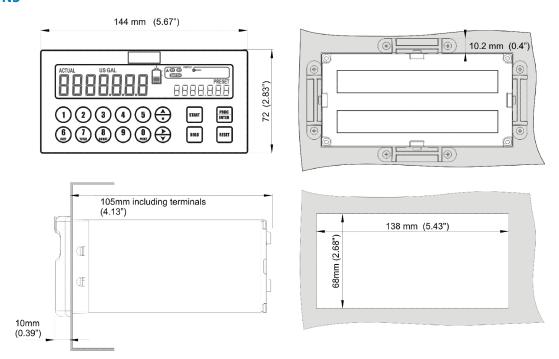
FLEXIBILITY

- Count up or count down with end of batch at zero or at batch preset value.
- Presettable set point and signal length for pre-warn output to control valve's first stage, sound alarm or control injection pumps.
- Non-volatile memory preserves all programmed information during power failure.
- DC input for mobile installations or backup power.
- Field-replaceable keyboard.

SERVICE

- Front panel or optional enclosure provides NEMA 4X (watertight and corrosion-proof) protection.
- Self test alerts of any internal failure.
- Default sets all functions to factory programmed values.
- · Plug-in output relays.

DIMENSIONS



SPECIFICATIONS

	High intensity transflective numeric and alphanumeric LCD, UV-resistant	
Туре	White LED backlight. Intensity adjustable from 0100% in steps of 20%	
	Good readings in full sunlight and darkness	
Digits	Seven 14 mm (0.56 in.) and ten 8 mm (0.3 in.); various symbols and measuring units	
Refresh rate	User definable: 8 times/sec.	
Die-cast aluminum front panel, GRP back enclosure		
Polycarbonate window, silicone gasket; UV stabilized and flame retardant material		
Keypad	Sixteen industrial micro-switch keys; UV-resistant silicone keypad; replaceable front	
Painting	UV-resistant 2-component industrial painting	
Dimension	144 × 72 × 110 mm (5.67 × 2.83 × 4.33 in.), W x H x D	
Classification	IP65 / NEMA4X at the front side	
Panel cutout	138 × 68 mm (5.43 × 2.68 in.) W x H	
Weight	650 gram / 1.7 lb	
Panel thickness	Max. 6 mm (0.25 in.)	
Operation	-2060° C (-4140° F)	
Storage	-4080° C (-40176° F)	
Humidity	85% non-condensing, relative	
Type PG	85265V AC. Power consumption max. 15 Watt 24V DC + 10%. Power consumption max. 15 Watt	
Sensor excitation	8.2 / 12 or 24V DC selectable; max. 50 mA	
Туре	Removable plug-in terminal strip; wire max. 2.5 mm² (0.1 in.²)	
Туре	EEPROM backup of all setting Backup of running totals Data retention at least 10 years	
Passcode	Configuration settings and control keys can be passcode protected	
Lock function	Complete keyboard can be locked with external input (for example, key lock or PLC)	
EMC	Compliant ref: EN 61326 (1997), EN 61010-1 (1993). CE and FPP certified	
	Digits Refresh rate Die-cast aluminum front p Polycarbonate window, si Keypad Painting Dimension Classification Panel cutout Weight Panel thickness Operation Storage Humidity Type PG Sensor excitation Type Type Passcode Lock function	

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