RC7200
REMOTE CONTROLLER STATION

DESCRIPTION

The Milton Roy RC7200 Remote Controller Station is a self-contained Proportional+Integral+Derivative (PID) controller that provides remote indication, configuration, and automatic control functions for the SC2200 or SC4200 Streaming Current Detectors. The RC7200 communicates with the SC2200 or SC4200 via a 4-20 mA signal and allows closed loop, automatic control of the coagulation process.

Once installed, the operator can select a Streaming Current set-point and the RC7200 will automatically adjust the chemical dose to maintain the desired water quality. The RC7200 provides a 4-20 mA process control signal for controlling a metering pump, control valve, or other chemical dosing device. All connections for output signals and alarm contacts are within the RC7200. The 4-20 mA communications allow up to 3000 feet of separation between the RC7200 and SC2200 or metering device.

The RC7200 provides simple start-up with a unique continuous auto-tune program. Once the set point is established, the unit continuously analyzes its response to changes and adjusts the PID bands accordingly. The operator does not need to configure any control parameters other than set point. The RC7200 is available in both wall and panel mount versions. This allows the plant personnel to install it in an existing panel or anywhere else in the plant that is convenient for the operators.

RC7200 PANEL MOUNT

FEATURES

- A complete Proportional+Integral+Derivative (PID) process controller
- Used with the SC2200 or SC4200 to provide automatic control of the coagulant dosing process
- Digital LED display, -100 to +100 Streaming Current Units & Set Point
- 4-20 mA process control signal output; Alarm contacts
- Continuous PID auto-tune
- Microprocessor based with self diagnostics
- Automatic and Manual mode selectable
- Available in panel mount or NEMA 4X enclosure
- Can be mounted up to 3000 feet from the SCD or metering pump
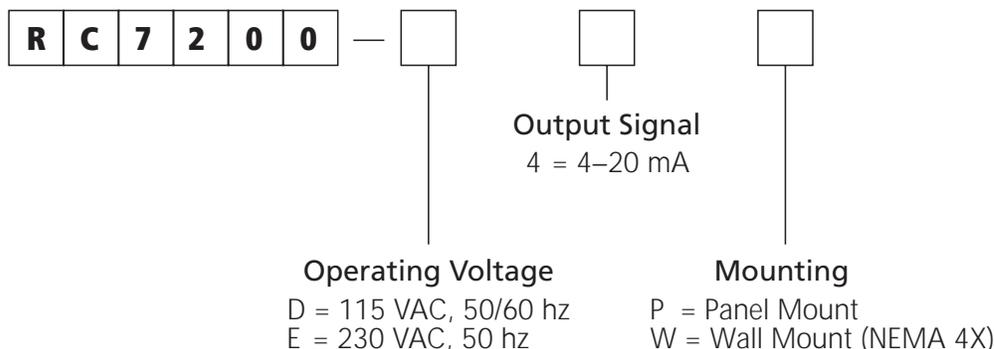- RS-485 optional for direct serial computer link to process controller

RC7200 WALL MOUNT

SC7200 MODEL SELECTION GUIDE

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Output Signal
4 = 4–20 mA

Operating Voltage
D = 115 VAC, 50/60 hz
E = 230 VAC, 50 hz

Mounting
P = Panel Mount
W = Wall Mount (NEMA 4X)
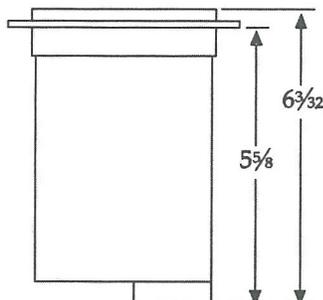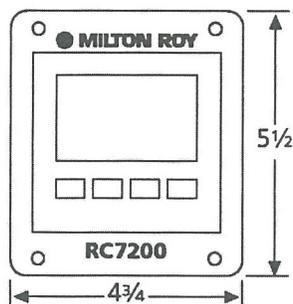
MILTON ROY®

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RC7200 DIMENSIONS

RC7200 Panel Mount

Mounting Hole Dimensions
Slide in:
 3⅝" high X 3⅝" wide cutout
 (No holes required)
Bolt on:
 4²⁹⁄₃₂" high X 3¹⁷⁄₃₂" wide
 ⁷⁄₃₂" diameter mounting holes
 4½" high X 4" wide panel cutout

102-1843-000

RC7200 NEMA 4X Wall Mount
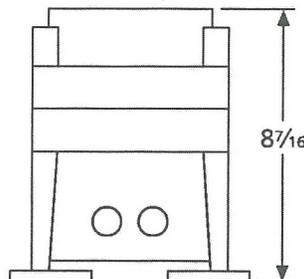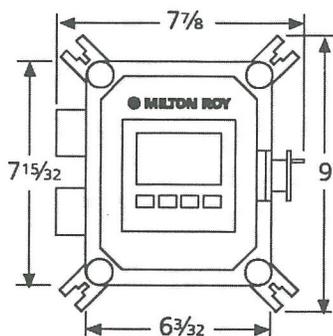
Mounting Hole Dimensions
7¹⁵⁄₃₂" high X 6³⁄₃₂" wide
¼" diameter mounting holes

102-1833-000

RC7200 SPECIFICATIONS

Power Required	115 VAC, 50/60 hz (standard) 230 VAC, 50 hz (optional)	**Response Time**	Less than 5 seconds
Instrument Input	4-20 mA Streaming Current Signal from SC2200 or SC4200	**Meter Readout**	Dual Digital Meters: -100 to +100 Streaming Current Units and Process Set Point
Instrument Output	4-20 mA process control signal (500 OHM load max.)	**Operating Temp.**	32°F to 120°F (0°C to 50°C)
Communications	RS-485 (optional)	**Alarms**	Band type; deviation from set point Relays: SPDT, 2 amps at 115/230 VAC
Control Functions	Single loop Proportional+Integral+ Derivative (PID); Continuous auto-tune; Microprocessor based with self diagnostics; Auto & Manual mode selectable	**Enclosure**	NEMA 4X, Polycarbonate (wall mount only)
		Weight	Wall mount = 6 lbs. Panel mount = 2 lbs.
System Accuracy	1% of full scale	**Control Wiring**	2 wire, twisted pair, 22 AWG, shielded (max. 3000 ft. separation from SC2200 or SC4200)

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