



SENTRY SAMPLE SEQUENCER 5 CONTROLLER

Sample Conditioning Automation

SAMPLE CONDITIONING

The Sentry® Sample Sequencer® 5 is a microprocessor-based system capable of electronically switching a maximum of eight sample streams between four analyzers. Time-sharing of analyzers lowers both acquisition and ongoing maintenance and reagent costs while providing performance advantages.

The Sample Sequencer 5 is capable of operating in a continuous or batch mode. The analyzer outputs are connected to the sequencer where various individual stream signal outputs are available, including:

- Digital outputs for point number indication
- Individual stream analog output signals with track and hold
- Digital transmission via TCP/IP Ethernet connection
- Embedded security protocols

MODELS

Sample Sequencer 5

BENEFITS

Time-sharing samples helps eliminate errors between analyzers and provides a precise comparison of relative values between four or more streams. For example, a single sodium analyzer, alternating between condensate polisher inlet and outlet, can resolve the onset of exhaustion with fractional ppb precision. The onset may otherwise be masked by the normal range of variation with independent analyzers.

Colorimetric analyzers are subject to upscale zero drift due to cell fouling. Time-sharing samples permits visual inspection by identifying relative zero and exposing zero shift when both values migrate upscale by equivalent amounts. Relative zero can be re-established without servicing the analyzer.

Individually programmable sample timers and custom sequence allows the sequencer to conform to each unique sampling requirement. A built-in data logger allows values to be stored on a removeable SD memory card. Any sample points not being used can time-share up to four analyzers.

An easy-to-use touchscreen display shows user configurable sample names and analyzer descriptions; analyzer readings displayed in engineering units; and the status of each analysis.

FEATURES

- Improves efficiency – sequences up to four analyzers from one interface
- Eliminates errors between analyzers and helps keep reagent costs to a minimum
- Intuitive touchscreen interface and easy-to-use icons let user manage streams simply and quickly
- MODBUS® TCP/IP Ethernet connection allows user to interface directly with a network server or laptop computer for remote monitoring of one or more sequencers
- Increased valve current enables greater flexibility when selecting compatible solenoid valves



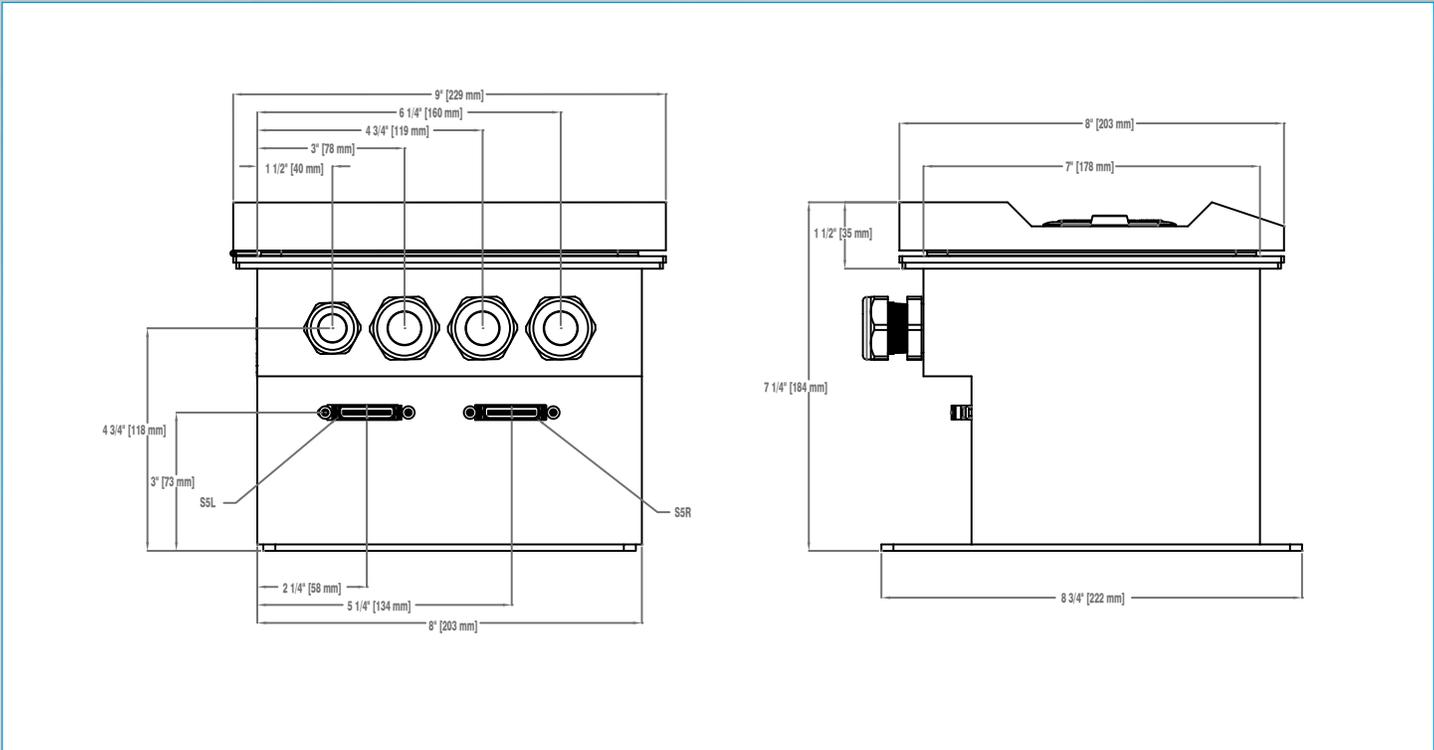
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Sample. Monitor. Measure.
SENTRY
Any Application. Anywhere.



SPECIFICATIONS

| | |
|------------------------------------|---|
| maximum number of samples | 8 |
| maximum number of analyzers | 4 |
| power | input voltage: 100–240 VAC; frequency: 50/60 Hz; input current: 1 A/115 V, 0.72 A/230 V |
| analyzer inputs | Four (4) analog inputs: 4-20 mA (100 Ohm load), ± 0.2% full scale Twelve (12) digital inputs for end-of-analysis indication, calibration indication, and analyzer system alarm indication |
| outputs | MODBUS TCP/IP or embedded web communication via Ethernet Valve outputs (12 VDC) to control up to eight solenoid valves for sample stream switching capable of handling up to 2A Twelve (12) digital outputs for point number indication and replicated analyzer alarms Current outputs: Eight (8) outputs (4–20 mA; 550 Ohm load), ± 0.2% full scale |
| resolution | analog inputs/outputs: 10 µA/Least Significant Bit |
| data logging | determined by SD memory card size; 4GB card (included) can handle up to 100 million logged events |
| user interface | 4.3-inch, 65k-color touchscreen display |
| enclosure | NEMA 4X (indoor), IP 65 |
| dimensions | 7 in. x 8 in. x 7 in. (18 cm. x 20 cm. x 18 cm.) |
| mounting | panel or surface |
| ambient temperature | -4° to 113°F (20° to 45°C); 5% to 95% relative humidity |
| shipping weight | 15 lb. (6.8 kg.) |
| agency approvals | CE, FCC, SGS |

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