

SENTRY AUTOVREL FLOW CONTROLLER

Sample Conditioning Automation

SAMPLE CONDITIONING

The Sentry[®] AutoVREL Flow Controller allows users to automate new or existing sample panels through a well-appointed device that controls sample panel flow based on feedback from a non-contact flow meter. With the AutoVREL "smart" function, the operator only needs to set the desired sample flow and the system automatically adjusts to changes in the sample pressure.

MODEL

AV-101

BENEFITS

Power plants that frequently cycle or have sliding pressures require technicians to manually adjust the variable pressure-reducing element (VREL) in their sample panels to maintain flow and EPRI-recommended sample velocity. With reduced staff resources, there is increased interest in automating these tasks.

The Sentry AutoVREL flow controller has been developed to meet this need as an entry-level flow controller that can be used in new or retrofit installations.

The Sentry AutoVREL flow controller is a sister product to the full-featured Sentry Sample Sentry[®] II which offers advanced control and monitoring features.

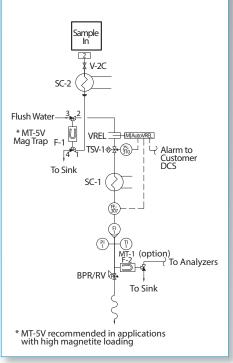
FEATURES

- Provides quick response time during system startup
- Can be field installed on existing sample panels
- Simple to set and maintain desired flow
- Displays current valve position
- Provides feedback to plant DCS via relay

- Can be set to display actual flow or set flow
- Responds to feedback from a Sentry TSV (Thermal Shutoff Valve) relay for increased operator safety
- Allows for manual operation through simple override
- Offers easy access to the Sentry VREL for maintenance and cleaning

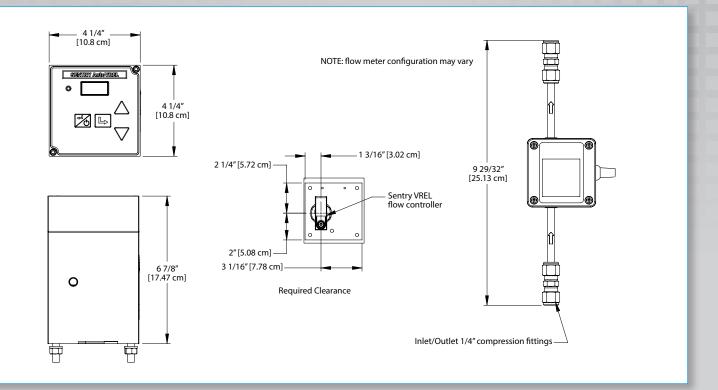


Example P&ID





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SPECIFICATIONS	
installation	With basic hand tools by plant personnel; optional installation kit available
mounting	Front side – panel only
dimensions	4.25 in w x 4.25 in h x 6.875 in d
sample temperature	60°F to 95°F (15°C to 35°C)*
ambient temperature	-4°F to 140°F (-20°C to 60°C)
flow range	200-1500 cc/min ± 100 cc/min (default flow meter range)
wetted materials	316 SS
input power	24V DC; separate power supply required
enclosure rating	lp 65
inputs	Flow, Sentry TSV trip
outputs	Visual indication of flow and setpoint; status indication relay for feedback to plant control room
user interface	Four keys: Up, Down, Enter/Display, Escape/On; backlit LCD display; LED operation indicator
manual override	Yes: See manual

*The AutoVREL flow controller is designed for optimum performance at EPRI-recommended value of 25°C (77°F). If normal sample temperatures fall outside of the sample temperature range, please contact your Sentry representative to discuss options.

sentry-equip.com

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COMPANY WITH QUALITY SYSTEM CERTIFIED BY DNV GL = ISO 9001 =