

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 lab technicians to manually adjust the variable pressure-reducing element (VREL) in their sample panels to maintain EPRI-recommended sample velocity. With reduced or reallocated staff resources, interest has increased in automating these redundant tasks. The Sentry AutoVREL Flow Controller has been developed as an alternative to the full-featured Sentry Sample Sentry II to offer an additional sample panel automation option.

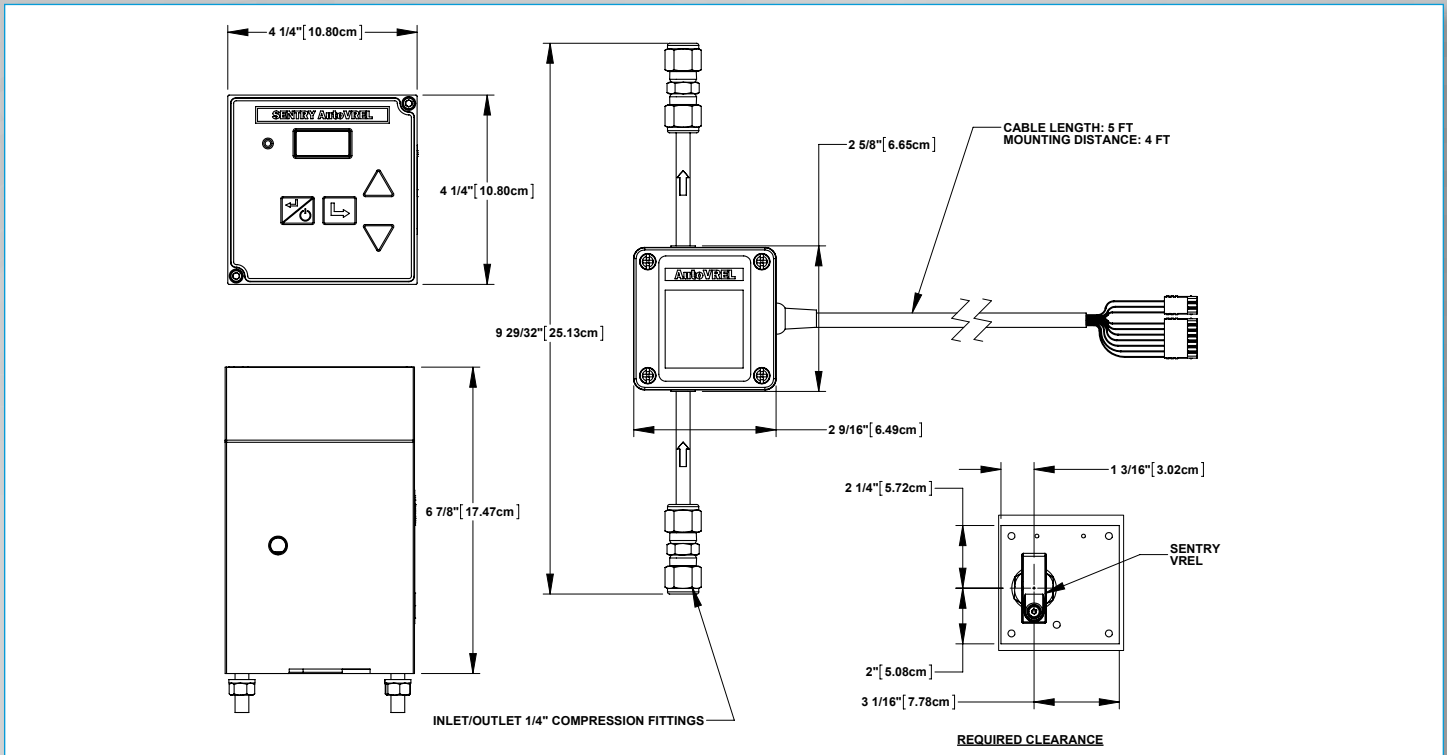
FEATURES

- 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, set flow or sample temperature
- 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



Control & Drive Unit

Non-Contact Flow Meter



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
temperature	Maximum 175°F (75°C) wetted parts; 130°F (54°C) display and electronics
flow range	100-2500 cc per minute ± 10% of setting
wetted materials	316 SS
input power	24V DC; separate power supply required
enclosure rating	Ip 65
inputs	Flow, temperature, Sentry TSV trip
outputs	Visual indication of flow, setpoint, temperature; 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: Remove control panel and install Sentry VREL handle



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