Gas
Liquid & Slurry
Solid & Powder
Steam & Water

# SENTRY SAMPLE SENTRY SERIES

## Sample Conditioning Automation

**SAMPLE CONDITIONING**

The Sentry® Sample Sentry® PRO/Lite is designed to meet requirements for representative sampling by maintaining a constant flow rate with varying inlet conditions.

EPRI-sponsored research and plant chemistry experts agree on the need for sampling at a constant velocity of 5–6 feet per second (1.5–1.8 meters per second) for water samples with varying source pressures. Automated flow control is the only way to obtain constant sample flow regardless of source pressure.

### MODELS

Sample Sentry Lite | Sample Sentry PRO (Pictured)

### BENEFITS

The Sample Sentry PRO/Lite is an automated sample conditioning module for remote or centralized sampling, has been designed to meet today's requirements for representative sampling by maintaining a constant flow rate despite varying conditions and employs industry-proven Sentry conditioning components.

Web control and display with alarm and shutoff capability improves operator safety and protects analyzers against over-temperature and pressure conditions.

"Smart" sample modules with network communications for remote computer display and control:

- make remote sampling possible
- allow for unattended sampling
- simplify data acquisition or interface with DCS.

### FEATURES

- Fully automated sample conditioning system provides automatic startup (including blowdown), flow control, and shutdown (PRO only)
- Improves sample accuracy
- Offers better chemistry control
- Lengthens analyzer cell life
- Self-cleaning (PRO only)
- Increases operator efficiency
- Automatic blowdown operation reduces buildup and improves sample representativity (PRO only)
- Meets sampling guidelines recommended by EPRI (Report #CS-5164, ASME PTC 19.11, ASTM D5540, VGB Guidelines)
- Options include high-pressure blowdown valve (shipped loose), secondary Sentry TR series sample cooler (includes additional temperature sensor), high cooler capacity of 3.5 square feet (.33 meters) for primary and/or secondary cooling, and stainless steel cooling water valves

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

| SPECIFICATIONS | |
|---|---|
| **pressure rating** | SL202L: 100–500 psi at 450°F (6.9–35 bar at 232°C)<br>SL202H: 500–3000 psi at 1000°F (35–207 bar at 540°C)<br>*higher pressure model available* |
| **flow control** | 0–1500 cc per minute, ± 5% of full scale |
| **temperature measurements** | 32°–250°F, ± 1°F (0°–121°C, ± 0.56°C) (PRO only) |
| **communications** | MODBUS TCP; common alarm relay contact available |
| **display** | Independent Touchscreen Web-based HMI |
| **power** | 100–240 V, 1-phase, 50/60 Hz input power |
| **instrument air requirements** | 80–120 psi (5.5–8.3 bar); air consumption <0.2 scfm (<0.34 scmh) (PRO only) |
| **dimensions** | 14 in x 42.5 in (356 mm x 1080 mm) |
| **mounting configuration** | surface, pipe or rack |
| **ambient temperature** | 32°–122°F (0°–50°C); RH 95% ma. non-condensing at 104°F (40°C) |
| **shipping weight** | 65 lb (29 kg) |

**sentry-equip.com**

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