

SENTRY SAMPLE SENTRY II

Sample Conditioning Automation

SAMPLE CONDITIONING

The Sentry® Sample Sentry® II 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–.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

SL202L Low-Pressure Model | SL202H High-Pressure Model

BENEFITS

The Sample Sentry II, a patented 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.

Digital 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

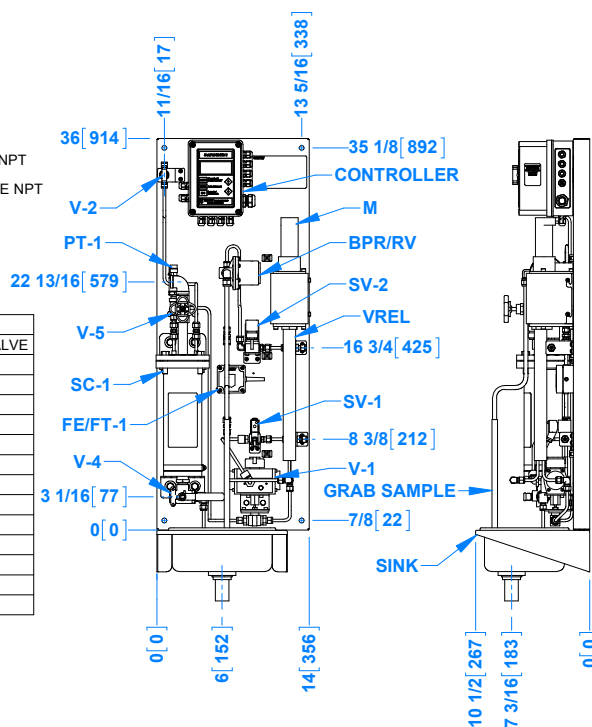
- Fully automated sample conditioning system provides automatic startup (including blowdown), flow control, and shutdown
- Improves sample accuracy
- Offers better chemistry control
- Lengthens analyzer cell life
- Self-cleaning
- Increases operator efficiency
- Automatic blowdown operation reduces buildup and improves sample representativity
- 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



CUSTOMER CONNECTIONS

- 1 SAMPLE INLET, 1/4 COMP. (SS)
- 2 SAMPLE OUTLET, 1/4 COMP. (SS)
- 3 PRIMARY COOLING WATER INLET, 1/2 FEMALE NPT
- 4 PRIMARY COOLING WATER OUTLET, 1/2 FEMALE NPT
- 5 INSTRUMENT AIR, 1/4 COMP. (SS)
- 6 SINK DRAIN 1" MNPS (SS)
- 7 $\phi 7/16$ [11 mm] MOUNTING HOLES 4X

ID	DESCRIPTION
BPR/RV	BACK PRESSURE REGULATOR / RELIEF VALVE
FE/FT-1	THERMAL FLOW SENSOR
M	MOTOR DRIVE
PT-1	PRESSURE TRANSDUCER
SC-1	SAMPLE COOLER
SV-1	SOLENOID VALVE
SV-2	ANALYZER SHUT-OFF VALVE
TE-1	TEMPERATURE ELEMENT
TE-3	TEMPERATURE ELEMENT
V-1	SAMPLE SHUT-OFF VALVE
V-2	SAMPLE INLET VALVE, HIGH ENERGY
V-4	COOLING WATER INLET VALVE
V-5	COOLING WATER OUTLET VALVE
VREL	PRESSURE CONTROL VALVE



SPECIFICATIONS

pressure rating	SL202L: 100–500 psi at 450°F (6.9–35 bar at 232°C) SL202H: 500–3000 psi at 1000°F (35–207 bar at 540°C) <i>higher pressure model available</i>
flow control	0–3400 cc per minute, $\pm 5\%$ of full scale
temperature measurements	32°–250°F, $\pm 1^\circ\text{F}$ (0°–121°C, $\pm 0.56^\circ\text{C}$)
communications	MODBUS RTU, RS-485; common alarm relay contact available
display	graphical vacuum fluorescent display
power	100–200 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)
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)



Representantes / Distribuidores Exclusivos

Argentina

Tel: (+54 11) 5352 2500

Email: info@dastecsr.com.ar

Web: www.dastecsr.com.ar

Uruguay www.dastecsr.com.uy

Paraguay www.dastecsr.com.py

Bolivia www.tecdas.com.bo



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