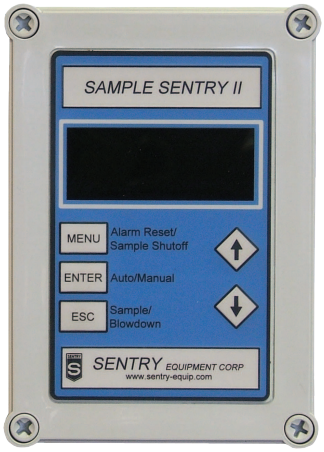
Rometec srl - www.rometec.it - Rometec srl - www.rometec.it - Rometec srl - www.rometec.it



SAMPLE SENTRY® II
AUTOMATED SAMPLE CONDITIONING MODULE

"Smart" Sampling Module for Single Line or Multiple Line Applications

Features

- The Sample Sentry® II is a fully automated sample conditioning system providing automatic startup (including blowdown), flow control, and shut down
- Improves sample accuracy
- Better chemistry control
- Longer analyzer cell life
- Self-cleaning
- Increases operator efficiency
- Automatic blowdown operation reduces crud build up and improves sample representativity
- Meets sampling guidlines recommended by EPRI (Report #CS-5164, Project 2712-2)

Description

Automated flow control is the only way to get constant sample flow regardless of source pressure. EPRI-sponsored research and plant chemistry experts agree on the need for sampling at a constant velocity of 5 – 6 feet/second (1.5 – 1.8 m/sec) for water samples with varying source pressures. This guideline is quickly becoming a preferred operating method.

Sentry Equipment's 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. The module utilizes industry-proven Sentry Equipment conditioning components.

Digital control and display with alarm and shutoff capability
- improves operator safety
- protects analyzer 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

Rometec srl - www.rometec.it - Rometec srl - www.rometec.it - Rometec srl - www.rometec.it

Rometec srl - www.rometec.it - Rometec srl - www.rometec.it - Rometec srl - www.rometec.it

SPECIFICATIONS

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

Models:

Low Pressure Model (SL202L)
0 – 500 psi (0 – 35 bar) @ 450° F (232° C)

High Pressure Model (SL202H)
500 – 3030 psi (35 – 209 bar) @ 1000° F (540° C)*
** Higher pressure model available*

Flow Control:
Range . . . . . 0 – 3400 cc/min.
Accuracy . . . . . ± 50 cc/min.

Measurements:
Final Sample Temperature
Cooling Water Outlet Temperature
Inlet Sample Pressure
Sample Flow Rate

Temperature Measurements:
Range . . . . . 32° – 250° F (0° – 121° C)
Accuracy . . . . . ±1° F (±0.56 ° C)

Communications:
Protocol . . . . . MODBUS®
Network RS-485
Common Alarm Relay Contact available

Display:
Graphical Vacuum Fluorescent Display

Power:
100 – 240 volt, 1-phase, 50/60 Hz input power

Instrument Air Requirements:
Minimum Pressure . . . . . 80 psi (5.5 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)

Approximate Shipping Weight:
65 lbs (29 kg)

Specifications are subject to change without notice.

Options:

a. High pressure blowdown valve (shipped loose)

b. Secondary TF series sample cooler (includes additional temperature sensor)

c. High cooler capacity of 3.5 ft^2 (.33 m) for primary and/or secondary cooling

d. Stainless steel cooling water valves

⚠WARNING

It is solely the responsibility of the end-user, through its own analysis and testing, to select products and materials suitable for their specific application requirements, ensure they are properly installed, safely applied, properly maintained, and limit their use to their intended purpose. Improper selection, installation, or use may result in personal injury or property damage.

CE

SENTRY EQUIPMENT CORP

PO Box 127
Oconomowoc, WI 53066 USA
Phone: 262-567-7256
Fax: 262-567-4523

E-mail:
sales@sentry-equip.com

Website:
www.sentry-equip.com

For further information, contact:

© Sentry Equipment Corp 2006

Rometec srl - www.rometec.it - Rometec srl - www.rometec.it - Rometec srl - www.rometec.it