

Service One Pager



PRODUCT : SABCO- SURFACE AUTO BLOWDOWN CONTROL SYSTEM

Document No : SE/SOP/SABCO Rev: 00

Product

This system is to be used to remove the concentration of total dissolved solids formed at the steam – water interface or just below the normal water level (NWL) at boiler.

This system works based upon the conductivity of boiler and blowdowns the water once set value reach.

Installation

- Sensor should be mounted vertically with sensor hole facing towards water.
- Cable length should be maintain between sensor and controller not more than 20 meters.
- Ensure that separate line should be provided for SABCO discharge till blowdown pit.
- Provide 230V AC, single phase UPS power supply for controller.

System Requirement

- 1 Sampling point at control valve outlet from the bottom of line.
- 2 Small terminal block of 4 terminals required to connect the sensor wire.
- 3 Necessary IBR approvals from local authorities.

Starting Sequence

Open isolation valve of sensor.

Set conductivity value on controller.

Valve opens when relay- 1 set point is reached.

Valve closes when relay-2 set point is reached.

Critical Components

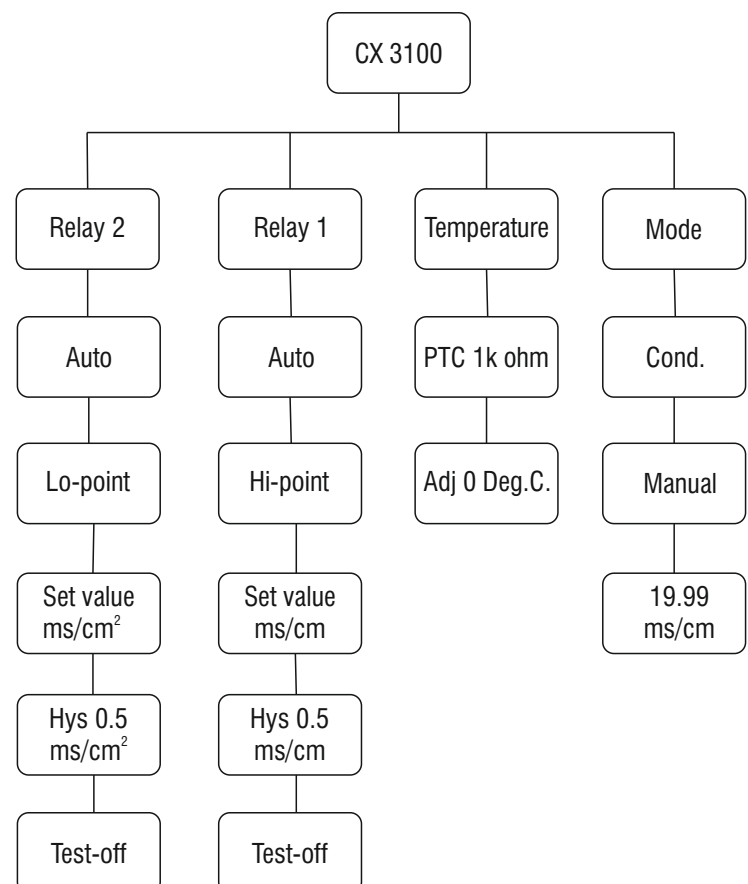
SABCO

Conductivity
sensor

Conductivity
controller

Motorised
valve

Controller Settings



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Troubleshooting

SYMPTOMS	POSSIBLE CAUSE
No display	Controller faulty
	Check voltage at power input terminal
Abnormal values	Clean the sensor
	Check parameter settings
	Change the cable
	Re-calibrate the sensor
Valve not opening / closing 100%	Adjust the limit switches
Manual handle not operating / getting slip	Check the latching of gear and do the greasing

Periodic Maintenance

Cleaning

Sensors

Lubrication

Motorised
actuator

Greasing of
isolation
valves

Checking

Conductivity
sensor
calibration