

DEGASSED CATION CONDUCTIVITY

Rich Experience in Power Plants
15 MW to 800 MW



Analysis | Monitoring | Performance



Degassed Cation Conductivity

A new design for conductivity measurement for power cycle chemistry monitoring. By providing conductivity measurement, in compliance with ASTM D4519, this system provides assurance of water purity to maximize power production and minimize corrosion. Unambiguous measurement of trace levels of corrosion causing contaminants is enabled with effective operator supervision. A must product for startup and supercritical Boilers.



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Features

- All conductivity measurements
- No External Cooling Water Required
- Dual Redundant Columns
- Stainless Steel Construction
- Multi-parameter transmitter with single-screen display of all measurements
- Very High Accuracy
- Auto Ranging
- Integrated flow sensor with automatic heater shut-off if flow stops
- Precise detection of corrosive contaminants
- Inferred pH and CO₂
- Trend Graphs for all measurements
- Universal PCB
- Digital Sensors
- Emergency Stop Button
- Low Flow Cutoff

Benefits

- Faster Plant Startups and simpler turbine warranty compliance
- Easy displaying and monitoring of sample conditions
- Protects the system from thermal damage and maintenance
- Understand plant characteristics better and plan maintenance, avoiding plant shutdowns
- Colour Indicating Resin for depletion
- Alert for changeover of Cation Column

Applications

- Feed Water and Steam Monitoring
- Power Plant Steam Quality Monitoring
- Power Plant Condensate Monitoring



Specifications:

Sensor:

Range for Degassed Conductivity	0-1 μ S
Range for Cation Conductivity	0-1 μ S
Range for Specific Conductivity	0-10 μ S
Accuracy	\pm 0.1%
Repeatability	\pm 0.1%
Temperature sensor	100 K ohm thermistor with Accuracy : \pm 0.2 °C at 25 °C (Optional : Pt100/Pt100 RTD with NIST traceable calibration with Accuracy \pm 0.1 °C at 25 °C)
Wetted materials	316 Stainless Steel
Response time	90% of value in <3s
Signal to transmitter	Digital

Transmitter:

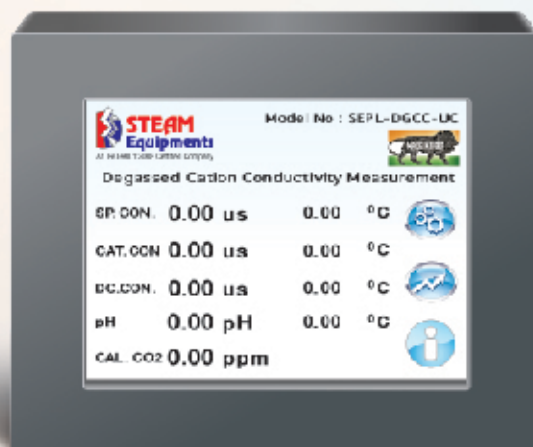
Current (analog) outputs	4 to 20 mA output per measurement (fault condition 3.5 mA, 22 mA or 0 mA) Galvanically isolated from input and from earth/ground
Analog output accuracy	\pm 0.05 mA over 1 to 20 mA range
Analog output configuration	Linear
Analog output load	500 Ω max.
Digital communication	Modbus RTU Internal, Modbus TCP/IP
User interface	Color touchscreen 5.7" Resolution 320 x 240 pixels QVGA, 256 colors
Update time (degas conductivity)	6 minutes
Alarm delay	Selectable Delay On and Delay Off
Connection terminal	Feed Through terminals appropriate for AWG: 24 - 12 wires
Relays	For Each measurement, Alarm Relays Three (3) SPDT, form 1C, 250 VAC, 3 Amp resistive maximum relays, user configurable as Hi/Lo or Fault alarms

System Specifications :

Power supply	110/230 VAC \pm 5%, 1600 Watt.
AC frequency	50 to 60 Hz
Sample flow rate	100 - 250 ml/min
Sample temperature	-5 to 50°C (Sample temperature more than 50°C by cooler - Optional)
Sample pressure	0.3 - 7 bar (5-100 psig)
Cation resin	1000 mL Redundant
Ambient operating	-20 to 70 °C temperature
Humidity	10 - 90% non-condensing
Dimensions (HxWxD)	850 x 600 x 286 mm
Weight	20 kg (44.1 lb)
Rating / approvals	CE component level



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STEAM Equipments
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