



Model CE800 Cation Conductivity/pH



ELECTRO-CHEMICAL DEVICES

Features:

- Rugged Enclosure or panel mounted System Plumb and Play Design
- T80 Transmitter Capability
- Low Maintenance

Benefits:

- Complete System, Easy Installation, Ready to Use
- Ease of Maintenance
- Local Display, 4-20mA output, Alarm Relays, digital output (Modbus or Hart)



Description

The ECD Model CE800 Cation Conductivity/pH provides a reliable solution for the continuous monitoring of makeup, feed, and condensate water for use at power plants. In today's world, solar, wind, and other renewables are growing in popularity. Unfortunately, these sources of power are not always reliable. In order to provide energy to power homes and industries, we must still rely on existing coal and gas power plants. The life blood of coal and gas power is water. Water quality is essential to ensure the proper effectiveness of plant operations and reduce unexpected shut down.

The CE800 Cation Conductivity/pH provides an additional parameter of importance for the power plant chemical to ensure water quality of the plant. The cation resin converts low conductive mineral ion such as Na^+ , Ca^{++} , and Mg^{++} to an acid form which has a high conductivity hydrogen ion H^+ . As the acid form has a conductivity that is 3 to 6 times greater than corresponding salt, the process is much more sensitive in measuring impurities

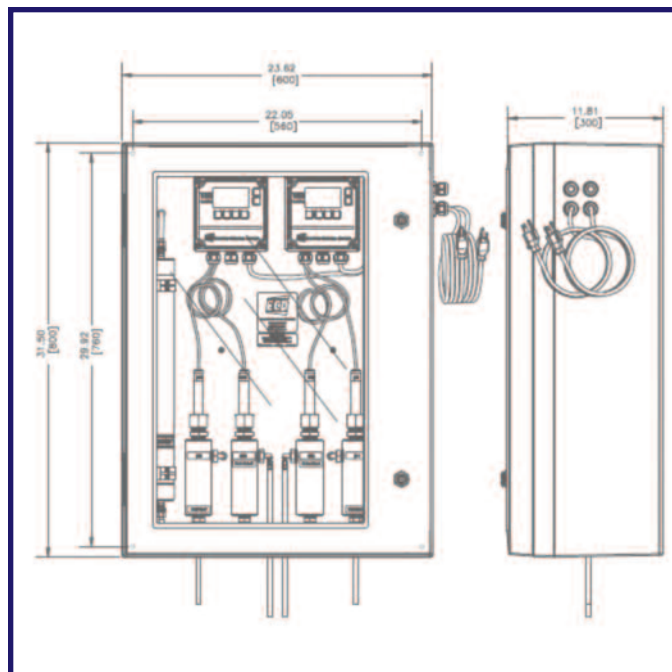
than a standard conductivity measurement. Oxygen Scavengers, such as ammonia and amines, which give high value, are removed after the cation resin. Provide a indication measurement of impurities in the medium. The CE800 also has the option to provide pH using ECD S80 High Purity Water electrode sensor. This also provides a secondary indication of possible water contamination to do a pH change before and after the cation resin.

CE800 is available as a panel mount or enclosure system with the option of one or two measurement stream. The CE 800 is very customizable and can be tailored to meet the customer's needs. The CE800 using the ECD T80 transmitter and S80 sensor (Resitivity, conductivity, or pH) along with a refillable cation column. The CE800 is Plumb and Play Design and is ready to use out of the box. The system is available with the 24VDC or 110/220VAC with optional alarm relay and digital communication (Modbus or Hart).

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Product Specifications and Features

Enclosure or Panel Mounted System	Plumb and Play Design
Low Maintenance	Complete System
Easy Installation	Local Display
24VDC or 110/220 VAC	4-20mA output
Continuous Monitoring of water makeup, feed, and condensate	
Option of one or two measurement stream	
Optional: Alarm Relays and Digital Output (Modbus or Hart)	
Monitor Resistivity, Conductivity, or pH with addition of T80 Transmitter and S80 Sensor	



Parts

1290013-5	Assembly Cation exchange w/ pH & Resistivity Sensors T80 110 VAC 2mA Outputs in Enclosure
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Spare Parts

9290024	Resin Bag Refill Cation Exchange
9680043	Clamp Mounting 1-1/2" Cation
9290025	Disk Porous Plastic 1.79" OD Cation Exchange
2000161	Kit, Quick Disconnect 1/4" Male/Female, 2-each
9552113	O-Ring 2-131 Buna N
2005005.VIT	Electrode pH High Purity Water
S80-00-0C00-0B00	S80 mV Sensor
S80-70-0C00-0B00	S80 Resistivity Sensor
S80-00-0C00-0B00-003	S80 mV Sensor w/ Electrode