Model A200 Conductivity Meter

Applications

A200 series meters are for use with Reverse Osmosis systems, cooling towers , ice makers ,car washes , aquariums, well water treatment and any other water treatment applications where conductivity of the water plays a major role in process and energy management applications. Although A200 meter is just a stand alone conductivity meter , it can be easily converted to a controller. Maximum of two dry contact relays can be added to setpoints high or low indicator LEDS which can activate a bleed valve ,alarm , shut down valve or any other control device.

Operation

A200 plumbing consists of two 1/2" couplings couples with a 1/2" nipple which is inside the unit where the stainless steel electrodes are mounted. In industrial applications meter has a temperature compensation to correct the measured value.Digital display shows the conductivity value as water passes through the meter. A200 has two LED indicator lights . Blue light shows that current conductivity value is lower than the setpoint or target conductivity value.Yellow LED will light up when water conductivity exceeds the setpoint value. 9 volt dc battery powers the unit. Push to test button located in between LEDs will power the unit and display the value as its being pushed. In industrial applications this feature is substituded with a continous operation where A200 powers from an AC adapter and battery ,push button switch are not being used. directly above blue LED there is a small trimpot adjustable with a small flat screwdriver. This trimpot is the calibration trimpot which enables the operator to verify conductivity reading with another handheld instrument and upon verification, turn the trimpot with a screwdriver to desired conductivity reading. Directly above the yellow service LED indicator is the setpoint trimpot. Operator can turn this trimpot to a desired conductivity value within the maximum range of the meter . Verify the setpoint setting by turning the calibration trimpot until display reads the setpoint value. Immidiatly blue LED will turn off and yellow LED will turn on. After verification turn the calibration trimpot back to previous setting.

Specifications

Size: 6" from one end of the coupling to the other .Enclosure size 3"x3" X1 1/2"
Power : 9volt battery included or 9 to 12 vdc ac adapter.
Range: Standard range 0 to 500 mhos or micro/siemens. Custom ranges can be configured upon request.
Setpoint: High and Low two indicator LEDS. Can be modified to activate relays for high and low.
Sensor: stainless steel rods 1 cm apart inside the plumbing . Temperature compensation thermister installed next to the electrodes.
Plumbing : Standard 1/2" threaded pvc schedule 40 couplings. John guest quick connect fittings can be installed upon request for tubes sized 1/4",3/8"or 1/2".