

Freshwater Salinometer SL8005

The salinometer measures and supervises the salinity (salt content) by conductivity measurement in fresh water. The measured value is displayed as ppm and by comparing the measured value to a user defined alarm setpoint value, relay outputs are available to indicate if salinity is above or below the alarm setpoint value.



Features

- Salinity Monitor for Freshwater
- Measuring range: 0-200 ppm
- High salinity warning
- Display for salinity and alarm level
- 4-20 mA output
- Built-in self-test
- Temperature compensation 0-100 °C
- Wall or panel mounting

Typical use

In areas where fresh water generation or purification is taking place and level of salinity in the fresh water must be monitored as well as in areas where a set level of salinity is requested in a process. Salinometers are used in: Freshwater Generators, Boilers, Reversed Osmosis Fresh Water Systems (RO) and other systems where salinity has to be supervised.

Main supply

85 - 265 V AC, 50/60 Hz, 10 VA typ. - 15 VA max. Mains supply must be protected against overcurrent by an external 250 mA slow-blow fuse.

Alarm function

User defined alarm setpoint value (0 - 199 ppm) is set using "+" and "-" buttons. When measured value exceeds alarm setpoint, change-over relay contacts A and B are activated. Alarm relay B may be enabled/disabled from the front by pressing a button.

Test

Full electronics test when power is switched on and during run-time a test-button is available for testing the salinometers. The test-button will disable the electrode and feed an internal 10ppm signal to the salinometer (note that this will be seen as an actual measurement, and alarms will respond to this). Connection to electrode is monitored and error in this reported on the front (malfunction + LED + display = "- - -").

TECHNICAL SPECIFICATIONS

Mains supply	85-265 V AC, 50-60 Hz, 10 VA typ. - 15 VA max.
Mains current	Mains supply must be protected against overcurrent by an external 250 mA slow-blow fuse
Power consumption	Max. 10.0 W
Range of salinity	0 - 200 ppm, displayed as "000" to "199" and "HI" if value exceeds 200 ppm
Alarm level	User defined alarm setpoint value (0 - 199 ppm)
Cable connections	1-2: Mains power input 3-5: Alarm relay A (change over function NO-C-NC) 6-8: Alarm relay B (change over function NO-C-NC) 11-15: Electrode 16-17: 4-20 mA output
Relay contacts	2 x Change-over relay contacts - capable of handling 4A (85 - 265 V AC or 24 V DC) load. Relays must be protected against overcurrent by an external 4 A slow-blow fuse
Protection	IP65