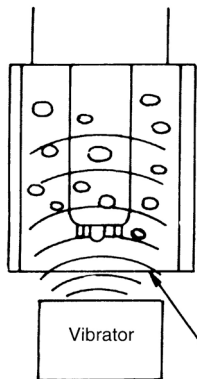


OVERVIEW OF pH•ORP SENSOR SERIES WITH AUTOMATIC CLEANER

Electrode fouling build-up occurs as a result of various causes. In order to reduce this, we offer comprehensive range of cleaning systems to improve the measurement performance, increase reliability and to reduce maintenance work. Please select the most appropriate cleaning system to meet your specific application requirements.

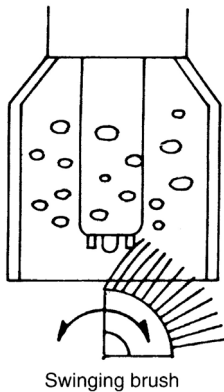
ULTRASONIC CLEANING SYSTEM



Ultrasonic waves of 80kHz are continuously irradiated on to the sensor section of the electrode causing cavitations that prevent fouling build-up. This versatile and easy to use system requires only electric power for operation.

Submersion type: UHC-7B
Flow-through type: UHC-8A

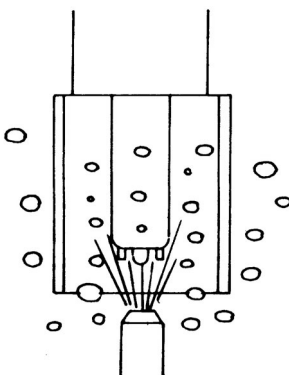
BRUSH CLEANING SYSTEM



This system uses a polypropylene cleaning brush which polishes the sensor section of the electrode by swinging across it on a cyclic basis. Fouling build-up can be prevented by approximately 10 swings of the brush (or greater) during each cleaning cycle. This versatile and easy to use system requires only electric power for operation. And can be combined with water-jet or chemical cleaning systems.

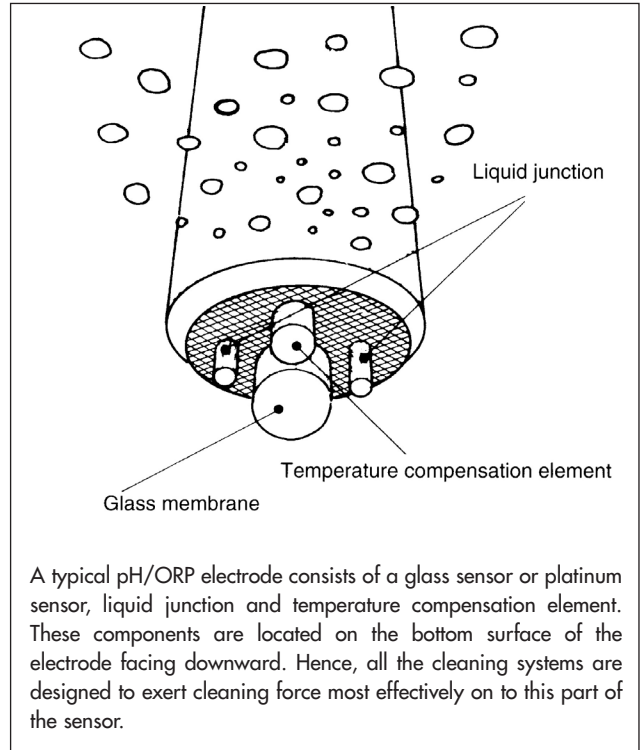
Submersion type: BHC-7B

WATER JET CLEANING SYSTEM



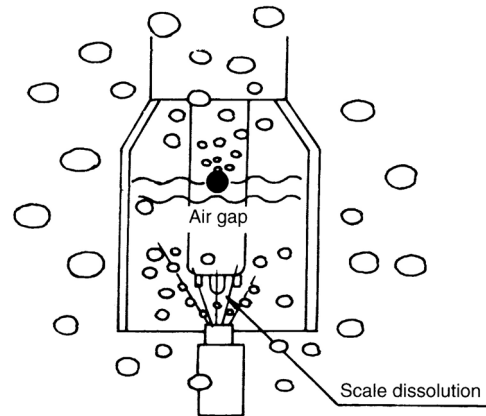
This system directs a jet of water onto the sensor section on a cyclic basis. The jet pressure prevents fouling build-up. This versatile and easy to use system requires electric power and a water supply for operation. This system can also be combined with brush or chemical cleaning systems.

Submersion type: JHC-7A
Flow through type: JHC-8A



A typical pH/ORP electrode consists of a glass sensor or platinum sensor, liquid junction and temperature compensation element. These components are located on the bottom surface of the electrode facing downward. Hence, all the cleaning systems are designed to exert cleaning force most effectively on to this part of the sensor.

CHEMICAL CLEANING SYSTEM



A powerful jet of air and chemical reagent (normally 5% hydrochloric acid solution) is sprayed from nozzle on a cyclic basis. The spray chemically dissolves and removes the crystal-line build up on the sensor section of the electrode. The jet of air forms an air gap around the electrode and cleaning is effectively executed without dilution of the chemical reagent by sample solution. This, field-proven system has an excellent reputation for use in pH controlled processes with numerous installation references available. The systems can also be combined with a brush cleaning system.

Submersion type: Model RHC-7A