

Product Name :
Control of Water Quality

Product Code :
AR465



Description :

Control of Water Quality

Technical Specification :

Water flows into a transparent tank which contains a stirrer. A sensor allows for measurement of the conductivity of the water. It is displayed on a meter and transmitted as an electrical signal to a controller. The desired conductivity is preset as the reference variable on the controller.

The controller influences the conductivity of the water by adding diluted caustic soda with a metering pump.

Control of water parameters; ph value, redox potential, oxygen concentration and electrical conductivity

Control of conductivity in transparent tank with stirrer

Control of ph value and oxygen concentration in transparent tank

Control of redox potential in collecting tank

Change in conductivity, ph value and redox potential by addition of caustic soda, sulphuric acid and iodine solution

3 industrial metering pumps

Change in oxygen concentration by injection of compressed air

4 parameterisable industrial controllers

6-channel line recorder

3 plastic tanks for caustic soda, sulphuric acid and iodine solution

Recording of ph value in collecting tank

Technical Data:

Tanks

Transparent tanks: 2x 5L

Collecting tank: 80L
Plastic tanks: 3x each
Metering pumps
Flow rate: each 2,1L/h
Head: each 160m
4 controllers parameterisable as
P, PI or PID controller
2-point controller
Measuring ranges
Conductivity: 0...100mS/cm
pH value: 1...12
Oxygen concentration: 0...60mg/L
Redox potential: 0...1000mV
230V, 50Hz, 1 phase.

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