

Automatic Chlorinator controller

AQUACON M 5500 C



- **Single or Duty — Standby** automatic chlorinator controller
- Simple installation, set up and start up
- Easy user unit communication
- IP 65 Control panel housing

- ⇒ **CONTROLS UP TO TWO AUTOMATIC GAS CHLORINATORS OR UP TO TWO SODIUM HYPOCHLORITE DOSING PUMPS**
- ⇒ **DIFFERENT CONTROL OPTIONS (FLOW, FREE CHLORINE, FLOW AND FREE CHLORINE)**

GENERAL

AQUACON series M 5500 C is a duty/standby control unit for control of up to two automatic chlorinators — gas or liquid. It is designed to control the process values on potable water plants, swimming pools, waste water plants or in industry.

OPERATION PRINCIPLE

Controller AQUACON M 5500 C controls one or two automatic chlorinators (liquid or gas) on the basis of information received from water flow meter or/and free residual analyzer. If two automatic chlorinators are connected than one is duty and the other is stand by.

Different control options are available:

- 1) Flow-proportional controller
- 2) Residual chlorine controller
- 3) Combination of flow-proportional and residual chlorine controller in one unit

Regulation for each individual system can easily be set on the field. Electronically controlled motor valve (or dosing pump), is driven through PID regulator with all types of control options.

Flow-proportional control

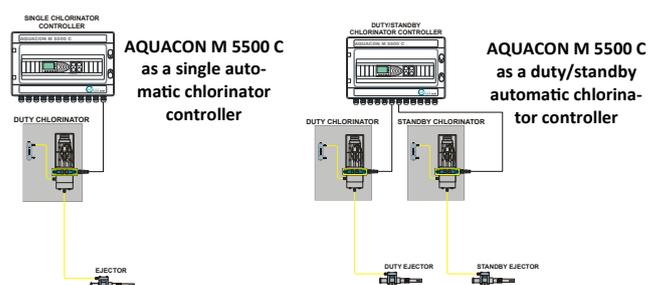
Simplest form of dosing control. The chlorine dose is proportional to the water flow. A flow meter provides a signal proportional to the water flow, which controller uses to determine the gas control. According to the set reference value and water flow, controller sends the appropriate signal to the chlorinator.

Free residual chlorine control

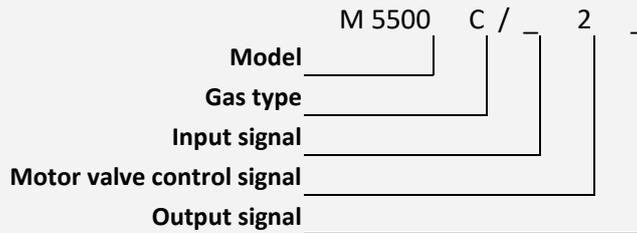
The controller receives the signal from a chlorine analyser down stream of the dose point. The signal from the chlorine analyser is compared with the reference value set in the controller and determines the correct dose and sends the appropriate signal to the chlorinator. This operation is performed after a predetermined process parameters which are set in the controller.

Flow-proportional control and free residual chlorine control (compound loop regulation type)

At start the chlorine dose is set proportional to the water flow. After a predetermined process parameters which are set in the controller, the signal from the chlorine analyser is compared with the reference value set in the controller. Controller then determines the correct dose and sends the correction signal to the chlorinator. Controller also immediately sends the correction signal to the chlorinator in case of any change in water flow.



ORDER CODE



OPTIONS:

- Gas type: C = chlorine
- Input signal: write in "C" for 4—20 mA
write in "P" for Pulse
- Motor valve M 3531 C control signal: write in 2 for M 3531 C valve 4—20mA control signal
- Output signal: write in "O" for regulator value output
Write in "C" for flow or residual value output

TECHNICAL DATA



Power supply:	230 VAC
Fuse:	1 A
Power consumption:	16 Watts (max)
Operating temperature:	55 °C(max)
Display:	LCD 4 lines x 20 car.
Control Inputs:	2 x 4 - 20mA (1 x flow, 1 x residual)
Control outputs:	Duty chlorinator Standby chlorinator
Resistance on analogue outputs:	500 Ohm
Processor:	Alpha
Dimensions:	410 x 285 x 140 mm
Weight:	3 kg
Protection:	IP 65
Control options:	Flow proportional Free Residual chlorine Compound loop
Inputs (from flow meter)	4 - 20 mA or pulse input 1l/1imp
Outputs	Regulator value output

MEASURE DRAWINGS

