

CHEMFLO PRO

Commercial Chemical Controller





CHEMFLO PRO

Chemflo PRO is a top of the range instrument controller equipped with the capability to connect up to four sensors of any type with appropriate analogue outputs and relays. Equipped with data logging as standard and multiple PID loops as options, the Chemflo PRO is able to control complex water treatment processes at a fraction of the cost of other controllers.

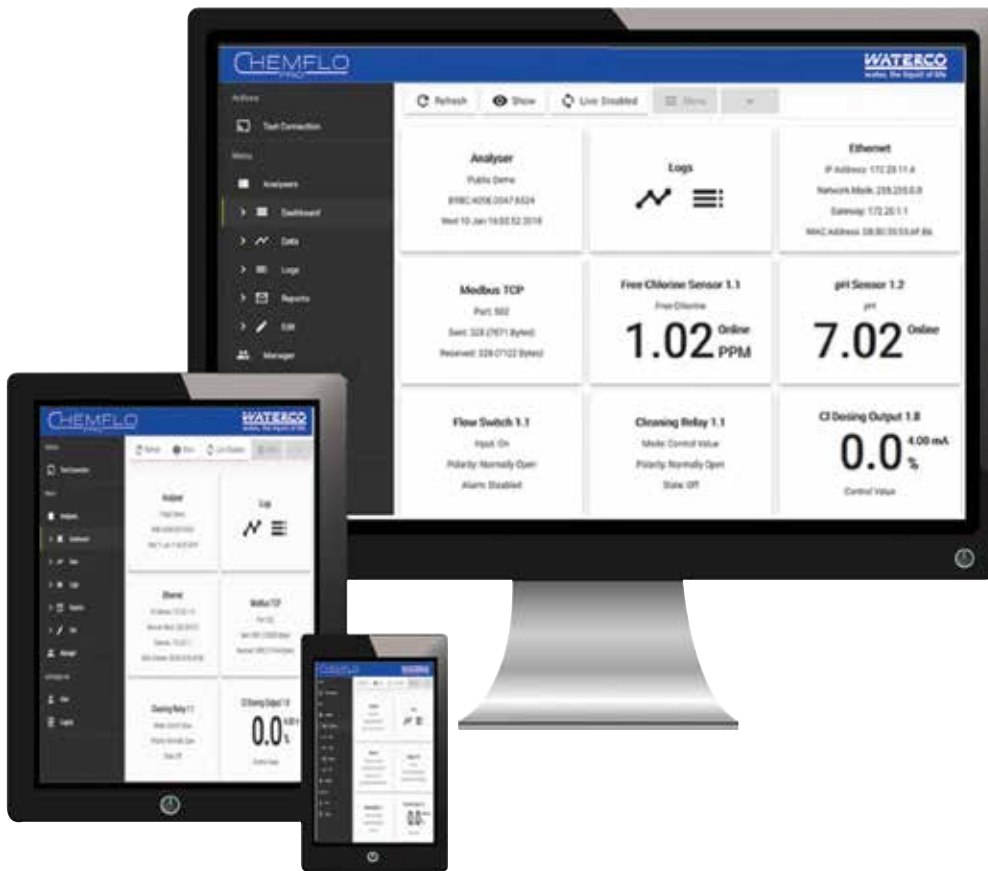
Key Features

- Free chlorine, total chlorine and hydrogen peroxide reading through amperometric sensors. Chlorine range goes from 0.05 to 10.00ppm and hydrogen peroxide from 5 to 500 ppm
- Open overflow flow cell for sensors
- Superior patented gel-filled glass pH electrode
- Large easy to read colour LCD screen
- Capabilities for 4 inputs (expandable up to 16) and 4 outputs (expandable up to 16)
- Optional Remote communication
- Optional VSD pump controller
- Includes dosing pumps for sanitiser and pH control
- Mounted on backboard

Remote Communication:

Optional 3G Communication module available. Alternatively, if your facility has a LAN (Local Area Network) and it can access the internet then you don't need a modem, just an optional LAN card is required.

- Full read and write remote access from any computer, tablet or phone
- No software to install
- Cloud-based data storage and analysis tools
- Email data logs and alarms
- SMS text alarms
- Multiple security level login



VSD Control (Optional):

Chemflo PRO VSD control sets the recirculation pump motor automatically, while the pool is being used, based on biocide demand. Biocide demand is directly linked to the number of people using the pool or spa, therefore Chemflo PRO can reduce pump speeds and electricity costs during periods of fewer bathers.

As the biocide demand is directly proportional to the bather load, fewer users will result in biocide levels dropping below the band threshold thus enabling a reduced pump speed during the day. Chemflo PRO VSD control exploits this relationship between biocide demand and bather load adjusting the speeds of the pumps during the day hence saving the pool or spa money on electricity.

Warranty

Controller : 2 years

Free Chlorine, Total Chlorine and Hydrogen Peroxide Sensors : 12 months

pH Sensor: 3 months

Technical Specifications (Controller only)

Power Requirement	<ul style="list-style-type: none">• 100-240 VAC/0.25 A or 12 VDC/0.8 A
Languages	<ul style="list-style-type: none">• Any non-pictogram by request• Any Latin, Cyrillic, Hellenic
Inputs	<ul style="list-style-type: none">• Up to 4 configurable sensor inputs (expandable to 16 inputs)• 4 - 20mA, 4 - 20mA loop powered,• 0 - 2 VDC,• +/- 1200 mV for pH, ORP, PT100, potentiometric, pulse and Modbus.• Unused sensor inputs can be used as outputs.• Up to 8 digital inputs (expandable to 32)
Outputs	<ul style="list-style-type: none">• Up to 4 dedicated configurable analogue outputs (expandable to 16 outputs)• 0 - 20mA, 4 - 20mA,• 0 - 1 VDC, 0 - 10 VDC, 1 - 10 VDC.• Unused sensor inputs can be used as additional outputs. Up to 8 SPDT electromechanical relays (expandable up to 32 relays) rated 10A at 250 VAC and 5A at 30 VDC
Alarms	<ul style="list-style-type: none">• 2 user configurable alarms with dead band and delay for each parameter and control output
Thresholds	<ul style="list-style-type: none">• 2 user configurable thresholds (for control) with dead band and delay for each measurement and control output
PID	<ul style="list-style-type: none">• Configurable flow proportional PID
Communication (Optional)	<ul style="list-style-type: none">• 3G Modem
Memory Backup	<ul style="list-style-type: none">• All user configuration is stored in non-volatile onboard flash memory
Enclosure	<ul style="list-style-type: none">• ABS flame retardant• IP65• Nema 4X
Dimensions	<ul style="list-style-type: none">• 230mm x 309mm x 103mm (controllers)
Display	<ul style="list-style-type: none">• LCD 4.3", 480 x 272 pixels, 24 bit colour
Weight	<ul style="list-style-type: none">• 2 kg (Chemflo Pro controller only)
Data Logging	<ul style="list-style-type: none">• Downloadable data logs or status message log over 1 million records

Installations



Parameter	Unit	Value	Alarm
Conductivity	mg/L	20.1	
pH		7.47	
Total Chlorine Residual	mg/L	1.77	
Total Chlorine Residual	mg/L	0.177	
Total Chlorine Residual	mg/L	2.00	



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