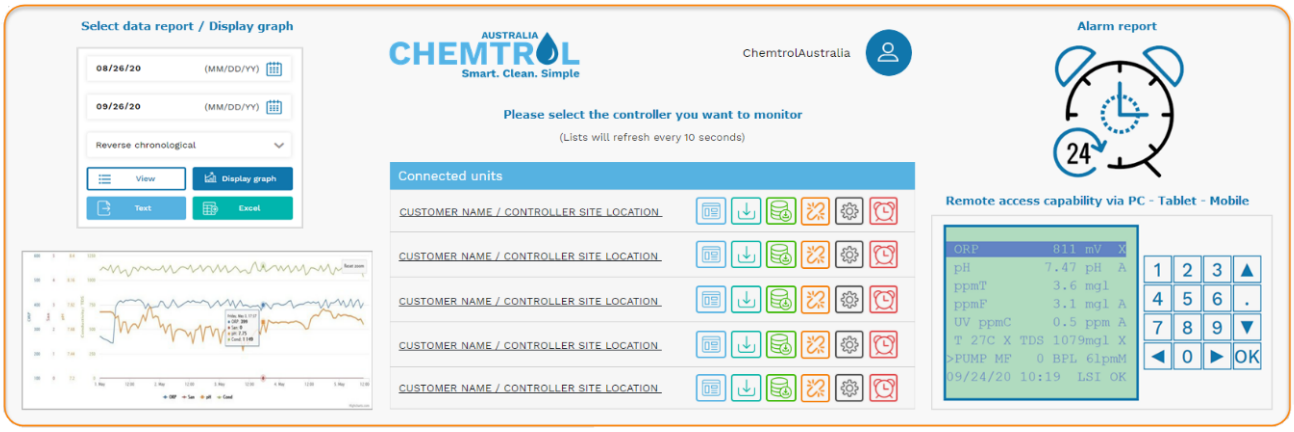
CHEMTROL AUSTRALIA PTY LTD
ABN: 95 626 805 301
Unit 19-20, 16 Narabang Way, BELROSE 2085 NSW
www.chemtrol.com.au

# CHEMTROL® Cloud-based Remote Monitoring

## Web access and communication options

We understand the importance of maintaining control and monitoring your facility around the clock. That's why our range of programmable controllers is equipped with remote access capability. With the remote operation function, you can effortlessly control and monitor multiple facilities from your computer or through a mobile app.

Our smart web-server technology provides true duplex operation with identical screens on both the controller and your computer. This feature is especially valuable for operator training and troubleshooting. It allows real-time control of all operating functions, including status reports, trend graphs, and automatic alerts via email or text messages.




### The CHEMTROL® Advantage: Our waterproof cabinet consolidates all communication needs.

- Remote monitoring and control with a cloud-based web server via Ethernet port or WiFi interface.
- True duplex operation technology mirrors the controller display on your PC or any mobile device.
- Wireless control using a 4G or 5G router.
- 4-20mA signal for monitoring display outputs.
- Building Management System (BMS) and SCADA Communications protocols include Modbus IP, Modbus RTU, BACnet IP, BACnet MSTP, and LonWorks.

BUILDING MANAGEMENT SYSTEM
BACnet Modbus

### Experience remote monitoring at your fingertips with the CHEMTROL® mobile app


With the CHEMTROL® mobile app, you have the power to control and monitor your facility 24/7.

Enjoy real-time control of all operating functions through true duplex operation technology, which mirrors the controller display on your mobile screen. The app is available for both Android and Apple devices.

CHEMTROL AUSTRALIA PTY LTD
ABN: 95 626 805 301
Unit 19-20, 16 Narabang Way, BELROSE 2085 NSW
www.chemtrol.com.au


## Connect anytime, anywhere with our programmable controllers.

Our range supports a variety of wired and wireless technologies, ensuring continuous 24/7 data access.

### Wired connection:

Imagine the controller as your personal laptop. Connect it to the internet by plugging in a live Ethernet cable from your local network.
Simply insert the Ethernet cable into the Network socket of the controller and you are now connected to the Internet.

- No extra hardware cost – All network components embedded.
- No annual subscription fee.

Seamless, stable solution with reliable internet connection.

### Wireless connection using a router

Connect your controller through a compatible 4G or 5G wireless router.
Install our router within the controller's cabinet and use a sim-card from a local Internet provider to establish a web connection.

- Seamless and stable solution, ensuring a reliable internet connection.
- Wireless router installation required.
- Annual sim-card subscription applies


### Wireless Connection

If you have an active router on site, you can use your CHEMTROL® controller to establish an internet connection.
In order to use this option our WIFI electronics module has to be installed. The controller then communicates with the router using the exiting username and password.

- WIFI electronics module installation required.
- No annual fee subscription.
- Check WIFI connectivity reception on-site.

## Shared Wireless Access + Control

A unique feature enabling multiple controllers in close proximity to share a WIFI signal. With this, a single Sim-card subscription connects all controllers, offering full connectivity and control.
Here's how it works: The main controller, connected to a 4G or 5G wireless router, accesses the internet. Other controllers nearby use a WiFi device to piggyback on the main controller's WiFi signal. This allows adding multiple controllers without the cost of multiple subscriptions.

- Main controller: Wireless router installation required.
- Secondary controller: WIFI electronics module installation required.
- Annual sim-card subscription applies only to the main controller/wireless router.
- Seamless and stable solution with a reliable internet connection.
- No annual sim-card subscription for secondary controllers.

## 4-20 mA Output Boards

The CHEMTROL® programmable controllers range offers several 4-20 mA Converter Boards, all functioning similarly. These boards provide two connection terminals for the output current. Their purpose is to convert the digital outputs of the controller into analog signals, compatible with analog monitoring and control equipment.

## Building Management System (BMS) and SCADA communication protocols

The CHEMTROL® programmable controller range is adaptable for communication using various open protocol languages.

The most common languages in use today include:

- Modbus IP, Modbus RTU
- BACnet IP, BACnet MSTP
- LonWorks

The controller can be configured with any of these languages.

To establish this connection, our BMS electronics module must be installed within the controller's cabinet. This smart electronics module converts the controller's digital outputs to the required protocol language.