



SteriNET™ Series

Remote Monitoring, Troubleshooting, Supervisory Control and Data Acquisition

Consolidated's *Advantage Series* sterilizer controllers are designed for seamless interface with a suite of state-of-the-art monitoring, troubleshooting, supervisory control and data acquisition solutions required to meet specific laboratory and/or facility requirements.

SteriNET™ Controller Comparative Capability

| | ADV PRO | ADV PB |
|---------------------------|----------|----------|
| SteriNET™ DataPort | standard | n/a |
| SteriNET™ Connex | optional | optional |
| SteriNET™ SCADA | optional | n/a |
| SteriNET™ APPs | optional | optional |

SteriNET™ Connex

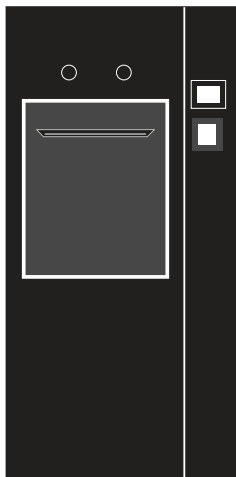
Remote Monitoring System and Factory Support

The Consolidated SteriNET™ Connex remote monitoring system offers a quick and easy solution for diagnosing your sterilizer from an offsite location. With SteriNET™ Connex, Consolidated engineers can connect to your sterilizer via a standard dedicated phone line. SteriNET™ Connex is ideal for facilities located in remote areas where service assistance is hours or days away.



Features and Benefits

- Maximizes uptime, reduces unnecessary on-site diagnostic calls, and minimizes on-site service time resulting in lower service costs over the life of the autoclave.
- Allows for efficient coordination and accurate parts ordering and delivery, for just-in-time service.
- Includes one year of free software updates.
- Software upgrades will be installed free of charge (excluding hardware, if required).
- Allows Consolidated factory engineers to acquire first-hand information from the system to support in-warranty or out-of-warranty (billable) service assistance.



Sterilizer



| Feature | SteriNET™ Connex ¹ | SteriNET™ Apps | SteriNET™ DataPort ² | SteriNET™ SCADA |
|--|-------------------------------|----------------|---------------------------------|-----------------|
| Live factory diagnostics | × | | | |
| Monitoring from mobile phone | | × | | |
| Monitoring from local computer | | | × | × |
| Electronic record keeping (data logging) | | | × | × |
| Multiple sterilizer monitoring | | × | | × |
| Supervisory control | | | | × |

¹ Can be ordered and utilized in conjunction with other SteriNET™ options.

² Data-acquisition software required.

SteriNET™ DataPort

Electronic Record Keeping

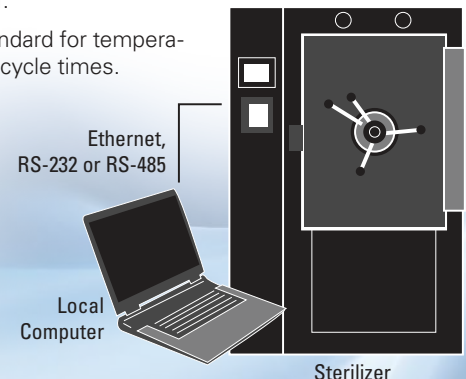
All Consolidated *Advantage Pro* sterilizer controllers are equipped with a SteriNET™ data communications (Ethernet) port for easy data acquisition and downloading to a local laptop or desktop computer. The SteriNET™ DataPort is also available as an RS-232 or RS-485 serial port; please specify when ordering.

Any SteriNET™ DataPort allows the user to record time, temperature and pressure data from the sterilizer in real time, with the proper data-acquisition software package.

In order to transfer data from the sterilizer to your local computer, third-party data-acquisition software is required and may be supplied by Consolidated. Consolidated offers a data-acquisition package that automatically collects data from the sterilizer, through the SteriNET™ DataPort. Consolidated can also design custom solutions to satisfy any unique customer application. Contact Consolidated for more information.

Features and Benefits

- Captures electronic record of each sterilization cycle.
- Transmits real time cycle data via Ethernet, RS-232 or RS-485 to a local computer.
- Data logging is standard for temperature, pressure and cycle times.
- Documents real time and history trending of sterilizer data.
- Permits hard copy records to be printed from the computer.





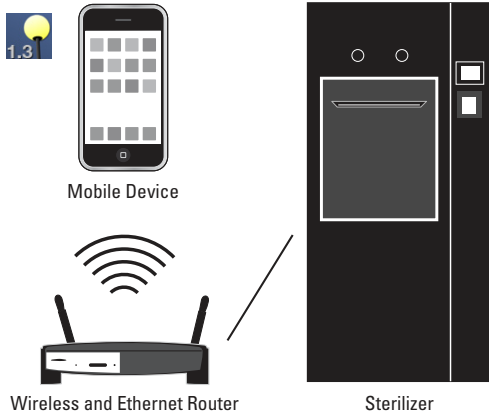
SteriNET™

SteriNET™ APPs

Third-Party Applications for Mobile Devices

Consolidated sterilizers can be configured to allow for monitoring through hand-held devices. Third-party applications can be loaded onto an iPhone, Droid or other cellular hardware. Contact Consolidated for information. This feature is ideal for researchers, technicians and facility personnel who are constantly on the move and require notification of sterilizer functionality.

Common parameters to track include temperature, pressure, cycle phase, cycle complete notification, alarm notification and others. SteriNET™ APPs can be set up to function over a local wireless network or over the internet.



SteriNET™ APPs connects by wireless router or direct Ethernet connection.



SteriNET™ SCADA

Supervisory Control and Data Acquisition System

The Consolidated SteriNET™ SCADA system maximizes the usefulness of monitoring, logging and controlling one or multiple sterilizers from a central location in your facility. The SCADA system allows for uniform operator interface across multiple platforms, including Microsoft Windows® CE, Microsoft Windows XP® and Vista®.

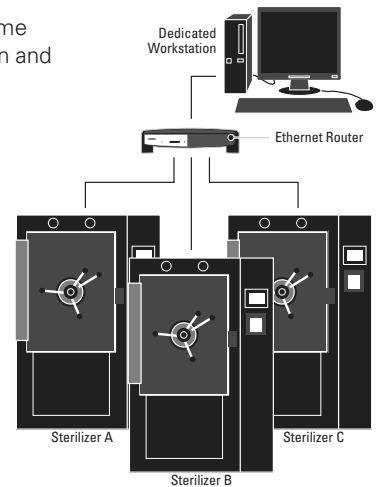
Access to the SCADA system can be enhanced by downloading new mobile device applications from third-party developers, permitting system monitoring from any location with cellular access. See SteriNET™ APPs.

Consolidated SCADA System Components

- **Human-Machine Interface (HMI).** A color touch-screen display permits the operator to monitor and control the sterilization cycle; included with sterilizer.
- **Programmable Logic Controller (PLC).** An Allen-Bradley PLC functions as the sterilizer brain. The PLC system offers economy, versatility, flexibility and is easily configured.
- **Computer System.** A standard computer is used to acquire and store data about the sterilization cycle and send commands to the sterilizer. Supplied by Consolidated or others; please specify when ordering.
- **Communication Infrastructure.** The sterilizer PLC serves as a Remote Terminal Unit connected to the computer system identified above.

Features and Benefits

- Connections are via Ethernet, RS-232 or RS-485 with single or multiple sterilizers.
- Graphical interface permits status checks on multiple sterilizers in multiple rooms, all from a central location.
- Data logging is standard for temperature, pressure, cycle times, alarms and other performance parameters.
- Control capabilities include temperature, pressure and time setpoints along with cycle run and abort outputs.
- Alarm functions for all SCADA-networked sterilizers are standard.
- Real time and history trending of sterilizer data are included for easy retrieval.
- Data capture to hard drive or other digital storage devices permits paperless record keeping.
- Data remains stored in the hard drive in case of power outage or printer failure.



**CONSOLIDATED
STERILIZER SYSTEMS**

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