



# PRI-MATIC 300

**FULL FEATURED PAC BASED  
CONTROL PLATFORM**



# PRI-MATIC 300

## The Gold Standard for Sterilizer Control



Medium  
Double  
Door Au-  
toclave

### ALL NEW PAC CONTROLLER

PRIMUS' Pri-Matic® 300 (PSS10) is a GAMP5 based programmable automation controller (PAC) that is 21 CFR Part 11 capable featuring Allen Bradley's CompactLogix® Platform. PRI-Matic 300 provides users with a color, touch-sensitive display featuring a high definition Allen Bradley PanelView Plus Graphics Terminal. Screen sizes range from 7" to 12" diagonally with a resolution of at least 800x600 pixels. These screens provide clear, sharp, and bright displays, even in environments with low light delivering realistic images and the brightest displays in the market.

The color HMI is mounted conveniently on the front fascia and can be coupled with a thermal or impact printer. PRIMUS also redesigned the front fascia to include a fully accessible

enclosure for easy serviceability. Ethernet port, USB port, e-stop and key switch are all included in the design. Functionality and aesthetics around the new enclosure were high priorities during the meticulous design process.

PRI-Matic 300 allows for up to thirty (30) separate programmable cycles out of the box. Included are cycles for sterilization of wrapped goods, hard-goods and liquids along with two dedicated test cycles, Bowie Dick and Vacuum Leak Test. On-screen messages are easy to read and displayed in complete phrases. Cycle data is printable, transferable (programmatically or on demand) to a remote device, or logged to an external non-volatile memory device.

# PLC CONTROLER

*Access & Control like never before*



## Predictive Maintenance

Predictive maintenance features allow users and service technicians to monitor the life cycles of major autoclave parts

Monitoring and tracking life cycles of major autoclave components ensures maximum uptime

Predicting component failure so you are able to stock parts before they fail minimizes downtime and increases productivity

## Wireless Remote Monitoring

Remote monitoring available via smart phone, tablet, or computer

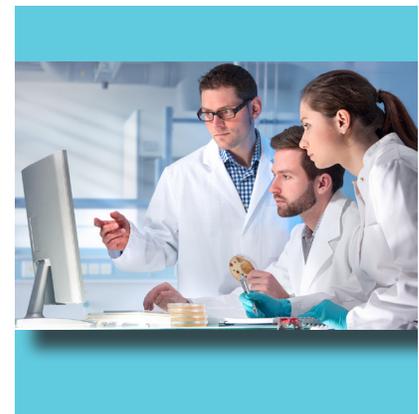
Standard remote monitoring does not require access to facility network

Monitor via Bluetooth connection or wireless router

Secure LAN router available for long distance remote connections

Enabled for facility network connection to allow remote monitoring via web interface throughout the location or WAN

Conveniently allows users to monitor cycle status from the comfort of their own office, providing increased productivity



## Service Diagnostics Mode

The service diagnostic mode allows for the ability to perform input and output testing

Included is the ability to manually trigger output signals to selectively test components without testing the entire system

Visual verification of input values and component status

Auto-Calibration allows technicians to calibrate multiple RTDs at once

Access to service diagnostic mode is protected via a security password

## Data Handling

All cycle print data is store to an internal SD card which is provided with the processor

Cycle historian data is available for download onto a USB storage device

8 GB USB provided during installation, expandable up to 32GB USB

Utilizes non-volatile storage to retain cycle data in the event of a power failure

SCADA file access available

## STANDARD CYCLES

### Pre-vacuum Cycle:

Provide for the sterilization of porous materials, hard goods, non-porous instruments, heat and moisture stable porous materials and decontamination of supplies using vacuum assisted air removal.

### Wrapped Goods:

Sterilization cycle utilizing vacuum assisted air removal for wrapped goods and heat/ moisture stable porous materials using EN285 standards. This cycle provides controlled steam penetration and helps minimize condensation buildup. Drying is enhanced with the use of post air pulse.

### Liquid Cycle:

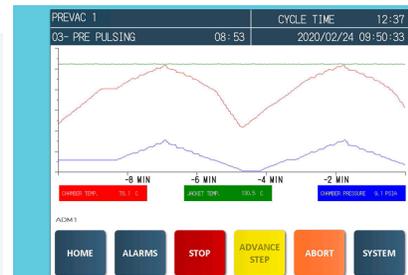
Liquid cycle provides for the sterilization of liquids and media in a controlled heating and cooling process to avoid boil over and maintain liquid integrity

### Vacuum Leak Test Cycle:

Operator-selectable automatic leak test cycle to verify the integrity of the door seal and piping system

### Bowie-Dick Test Cycle:

Operator-selectable automatic test cycle for Bowie-Dick test packs



## FEATURES

### PRI-MATIC 300

#### REAL-TIME TREND GRAPH DATA

Automatically tracks vital temperature and pressure information. Shows process values for chamber, jacket, and load probe.

#### STEP DETAIL SCREEN

Displays a description of the current cycle phase and the help function provides great for training new users

#### USER AUTHORIZATION LEVELS

Four levels of authorization come standard with increasing varying access permissions. Standard levels include default, operator, technician and administrator. Additional levels can be custom configured if required.

#### PROPORTIONAL CONTROL

Software driven proportional valve control with automatic verification against the saturated steam and temperature table

#### ALARMS

Alarms are logged and available on an alarm history screen. Displayed are the last 25 alarms along with a date and time of acknowledgment

#### ACCUMULATED HEAT OF LETHALITY (A<sub>F0</sub>) CONTROLS

A  $F_0$  calculation is available on load probe configured sterilizers. This allows the cycle sterilization phase to be driven by A  $F_0$  rather than by time.

PREVAC 1	CYCLE TIME	19:25
01- HEATUP	00:26	2020/02/24 09:57:19

CYCLE	PARAMETERS	DETAILS
START		
PURGE		
PRE PULSING		
HEATUP		
STERILIZING		
EXHAUST		
DRYING		
POST TREATMENT		
EQUALIZE		
END		

TIME REMAINING

00:40:32

ADM1

LOGOUT	ALARMS	STOP	ADVANCE STEP	ABORT	MORE
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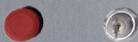
# LEGACY CONTROL PLATFORM COMPARISON



	PRI-Matic 100 (PSS11)	PRI-Matic 200 (PSS9)	PRI-Matic 300 (PSS10)	PRI-Matic 400 (PSS7)
Control Platforms & Display Configurations	PLC 8.4" or 10.4" HMI Touchscreen Screen	PAC 7" PanelView Plus 7	PAC 10" PanelView Plus 7	PAC 10" PanelView Plus 7
Cycles	30	25	30	30
<b>OPTIONS &amp; FEATURES</b>				
User Access	15	30	30	30
Password Maintenance	•	•	•	•
Parameter Access	Controlled by User ID	Controlled by User ID	Controlled by User ID	Controlled by User ID
Profiles	○	•	•	•
On Screen Help	•			
Billing Codes	○	○		
Multi-Language	○	○	○	○
CFR 21 Part 11 Capable	•	•	•	•
EN285		○	○	○
GAMP5		○	○	○
Interactive P&ID			○	○
Print Store	•		•	•
Ethernet Printing	○	○	○	○
Serial Printing	○	○	○	•
Simple Controls	•			
Step Detail Screen	•	•	•	•
Cycle Countdown Screens	•	•	•	•
Enhanced Ethernet Connectivity				•
Screen Saver		•	•	•
Predictive Maintenance	•	•	•	•
Remote Monitoring & Control				•
LAN	•	•	•	•
Wireless	○	○	○	○
PRI-Connect (Remote Diagnostics)	○	○	○	○
Data Historian Connectivity	•	•	•	•
PDF Report Creator	○	○	○	○
USB Cycle Data Handling	•	○	○	○
Upgrade Kits Available	•	•	•	•

• - Standard | ○ - Optional





 **PRIMUS**  
SPIRE INTEGRATED SOLUTIONS





# PRIMUS

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#### US HEADQUARTERS

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