



PRIMUS
SPIRE INTEGRATED SOLUTIONS

PRIMUS LIFE SCIENCES

PRI-MATIC® 100



PRI-MATIC 100

The next generation of Sterilizer control



Medium
Double
Door Au-
toclave

ALL NEW PLC CONTROLLER

PRIMUS' Pri-Matic® 100 (PSS11) is a full featured PLC based control platform featuring a selection with the largest HMI's (Human Machine Interface) in the market. PRI-Matic 100 provides users with a color, touch-sensitive display featuring a high definition TFT LCD display. Screen sizes range from 8.4" to 12.1" diagonally with a resolution of 800x600 pixels. These screens provide clear, sharp, and bright displays, even in environments with low light, by utilizing the 65,536 available colors, delivers realistic images and the brightest displays in the market.

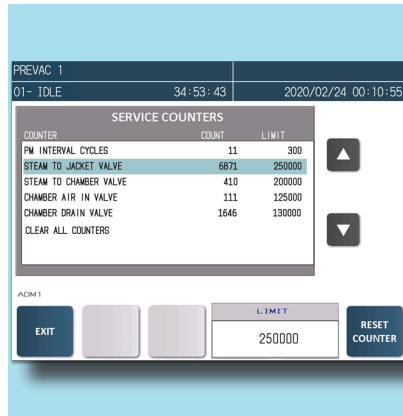
The color HMI is mounted conveniently on the front fascia and can be coupled with a thermal or impact printer. PRIMUS also redesigned the front fascia to include a fully accessible

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 100 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 enables easier budgeting

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

Wireless Remote Monitoring

Remote monitoring available via smart phone, tablet, or computer

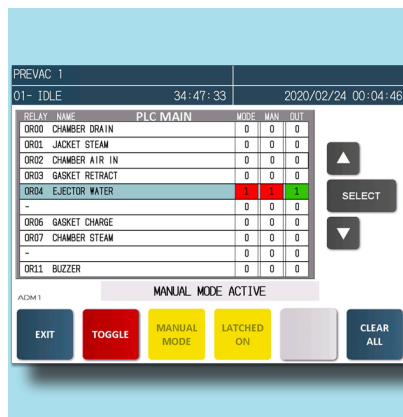
Standard remote monitoring does not require access to facility network

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 data is available for download onto a USB storage device

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

Cycle data can be stored for up to 6 months

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, heat and moisture stable porous materials and decontamination of supplies using vacuum assisted air removal.

Gravity Cycle:

Sterilization utilizing gravity air removal for unwrapped, non-porous instruments and heat/ moisture stable porous materials providing for a rapid cycle with fast temperature rise. Gravity Cycles are appropriate for loads when air removal from porous materials (pack, etc.) is not required

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 100

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_{F0}) 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.

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
OPTIONS & FEATURES				
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



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US HEADQUARTERS

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M1002_PRI-MATIC100_V 1.00 20.03.02