

PALETTE STERILIZER COMPUTER SYSTEM IN A "28 oz, NEMA4" Box!

The Orion Sterilizer is FDC's newest product that incorporates the sterilizer interface, datalog, print and review in an embedded (no hard disk or moving parts), 5.7" color PC. No external PC or software is required for setup, printing or data logging review.

Real time entry for filename, batch and lot number as well as real time and historical trend data provide the operator with all pertinent data regarding each sterilization cycle. Full alarm management (and history) provide easy to understand information during sterilizer alarm conditions.

Data storage for each sterilization cycle is stored local to the Orion interface. More than two years of data can be stored internally and reviewed locally with no PC interface required. The menu driven "Windows" interface is simple to use and reduces any learning curve for the sterilizer operator. Orion connects to a standard "USB" HP inkjet printer (HP model 6540) and can be configured to "auto print" a trend printout at the end of each sterilization cycle. Future Design's "MultiView" PC software, provides monitor, datalog and supervisory control functions from a remote PC running Window XP (no charge).



FDC-ORION PALLET STERILIZER

- ▶ **INTERFACE FOR ALL STERILIZER OPERATIONS.**
- ▶ **GRAPHIC, TREND, HISTORY AND ALARM VIEWS.**
- ▶ **VIEW ALL OPERATION FUNCTIONS FROM ONE SCREEN.**
- ▶ **ALARM MONITORING FOR ALL STERILIZER OPERATIONS.**
- ▶ **MORE THAN 2 YEARS OF HISTORICAL DATA STORAGE.**
- ▶ **HISTORICAL DATA VIEWER FOR ANY POINT/TIME.**
- ▶ **BUILT IN "WEB SERVER" PROVIDES WIRED OR WIRELESS ACCESS TO ALL STERILIZER DATA VIA LOCAL INTRANET OR WORLD WIDE WEB.**
- ▶ **CONFIGURABLE SECURITY W/AUDIT TRAIL IF ENABLED.**

FDC-ORION STERILIZER SPECIFICATIONS

POWER

24VDC - 500mA maximum current draw.

DISPLAY

Display Type: STN Color LCD

Display Size: 5.7"

Max Colors: 4096

Resolution: 320 X 240

Pixel pitch (HxV,mm): 0.36 X 0.36

Luminance(cd/m²): 100

Storage Temp (C): -20 to 60

Operating Temp (C): 0 to 45

Backlight: 1 CCFL

Contrast Ratio: 30:1

TOUCHSCREEN

Type: 4 wire, analog resistive

Resolution: Continuous

Light transmission: above 80%

Life: 1 million activation minimal

PROCESSOR

Type: Cirrus 200Mhz

MEMORY AND OS

Memory: 64MB of internal RAM

Operating System: Windows CE.net

CONTROL INTERFACE/PLC

Type: PLC/RS485 multidrop interface

PLC Inputs: Four T/C or RTD configurable (Chamber temp, pallet 1,2 and 3 probes)

Additional Monitor Probes: Up to 8 total.

Chamber Control: On/Off, On/Off Time Proportioning and full PID analog (4-20mA output)

Alarm Inputs: 12 digital (24VDC) with delays configurable.

Digital Outputs: 6 relay, 2 transistor (24VDC)

DATA STORAGE

Type: 128 Mb compact flash

CONNECTION

Serial: Com1, 2 & 3 - RS232/RS485

Ethernet: 10 baseT

USB: 2 host

Sound: 16 bit sound output

PHYSICAL

Front Panel: Meets Nema4/IP65

Shock: 10 to 25Hz(X,Y,Z direction 2G, 30 mins)

Dimensions: 204" (H) x 150" (W) x 48" (D) - mm

Weight: 28.21.0 oz. (0.8 kg)

WHAT CAN ORION DO FOR YOU?

1. Orion combines the sterilizer interface, PC data storage, data log, trend and print into one easy to use package.
2. Data for each sterilization cycle resides in flash memory. No PC required. More than two years of data can be stored before file transfer is necessary (based on 4 hour sterilization cycles, 5 cycles per day).
3. Intuitive, easy to use interface for end sterilizer users. Reduced training curve required.
4. Transfer of all internal files via standard USB "I-Stick" memory device. Orion PC data viewer available at no charge.
5. Full USB "auto print" capability with standard "HP" inkjet printer (HP model 6540 supported).
6. Built in "Web Server" provides wired or wireless access to all sterilizer data via local intranet or World Wide Web.

Windows menu driven interface reduces "screen clutter" and provides an easy to use interface for all sterilizer operations:

View Setup Log Security

Chamber Temp (F): **140** SP: **140**

Sterilizer Information

Sterilize SP	Sterilize (Mins)	Cool (Mins)
135	35	10
Pallet 1	Pallet 2	Pallet 3
136	137	136

Start Stop Status: **System Off**
Time Left (Mins): **N/A**

Main View at 10/22/2005 10:15:00 AM

View Setup Log Security

Sterilizer Cycle Information

Enter filename, batch, lot and operator. If left blank, date/time filename will be used.

FileName: **RUN 17735**

Batch#: **17735AC2**

Lot#: **77541AG3B**

Operator: **JMARKS**

Run Cancel

Cycle View at 10/22/2005 10:15:00 AM

View Setup Log Security

Monitor Probes View

Mon #1	137	Mon #5	N/A
Mon #2	136	Mon #6	N/A
Mon #3	135	Mon #7	N/A
Mon #4	N/A	Mon #8	N/A

Monitor Probes View at 10/22/2005 10:15:00 AM

Views Setup Log Security Help

Audit Trail Viewer

Open Audit Trail

Date	Time	User
10/15/2005	10:55 AM	TIMLANE
10/16/2005	1:53 PM	MARKLEWIS

Audit Trail

Real time trend and alarm monitor replaces circle/strip chart recorders as well as front panel pilot lights for operational status:

View Setup Log Security

Chamber Temp Chamber SP Pallet 1 Probe
Pallet 2 Probe Pallet 3 Probe Sterilizer SP

250.0
200.0
150.0
100.0
50.0
0.0

1:00 PM 2:00 AM 3:00 PM 4:00 AM 5:00 PM

Real Time Trend at 10/22/2005 10:15:22 AM

View Setup Log Security

Alarms:

Silence Clear

Alarm Type	Date
AIR FLOW SWITCH	10/22/2005
PALLET 1 PROBE ERROR	10/22/2005
PALLET 2 PROBE ERROR	10/22/2005

ALARM MONITOR VIEW

