



SMART SURGEON CONTROL PANEL – POWERED BY ANDROID OS



CE

Application

- With the touch sensitive monitor, which can be operated directly by the touch of a finger,
- Operating & monitoring of OT Control Panel to monitor medical gas pressures, temperature, humidity, room pressure

- OT data can be exported for hospital analytics
- Clean room parameter data can be viewed on the analytics screen

Features

- Wide range of 15"/22"/32" inch Touch Screen HD Display with Password protected interface.
- RISC-V based process technology
- Wi-Fi & MODBUS connectivity
- Date & Time - Real time clock
- Operation timing - Elapsed time
- Anesthesia timer – Count Down time
- Temperature – controlled through settings
- Relative Humidity - controlled through settings

- HEPA Filter Status Indicator
- Visual Alarm
- Medical Gas Alarm for 6 Gases, 1 Vacuum and AGSS (Oxygen, Nitrous Oxide, Carbon Dioxide, Medical Air-7, Medical Ai-4, Nitrogen)
- 6- Light Controls (4 Panel Lights, 1 OT Light, 1 X-ray Light) with 2 way switches
- Differential Pressure, OT Pressure
- Music Player
- Dicom Image Viewer
- Save - Surgery details (Optional), Touch Screen with IP67 rating



TECHNICAL SPECIFICATION

Display

- Type: Full HD IPS Screen, Resoulution:1920x1080
- Touch Capacitive IPS 350nits Brightness Touch panel with Android
- Size: 15"/22"/32" inches (diagonal)
- Resolution: 1024 x 768 pixels, 304.13 (H) x 228.10 (V) mm
- Brightness: Up to 300 nits (typical)
- Touch: capacitive type
- Proportion:16:9

Performance

- Chip: RISC V
- CPU: 2- core (1 performance, 1 efficiency)

Storage Options

32/64 GB - Available for 7"/10"/15" Inch Display

Operating System

Android,RTOS

Connectivity

- Option: Wired without IOT, Wired with IOT-4.0
- Point to Point Wireless with IOT-4.0, Point to Point Wireless without IOT
- Range - 100 meters

Additional Features

- Light Control: Five Channel
- Light Dimmer: Two Channel (0 to 10V)
- AC Control:One Channel (0 to 10V)
- NC NO Relay Operation

Sensor Specifications

- Gas Type: Oxygen (O2), Nitrous Oxide (N2O), Nitrogen (N2), Medical Air4 (Air4), Medical Air7(Air7)
- Detection Method: Semiconductor
- Sensitivity: 0100% LEL (Lower Explosive Limit)
- Response Time: <3 seconds
- Pressure Range: Gas Type Positive (0 to 10 bar, 0 to 150 psi)

Timekeeper

Inbuilt Real Time Clock (RTC)

Environmental Sensor:

Temperature Sensor
Humidity Sensor
Barometric Pressure Sensor
Differential Pressure Sensor
Hepa Sensor
- Environmental Sensing Range: -20 to +80 degree Celsius
(Resolution: 0.1 degree Celsius)
0 to 100% Rh (Resolution: 0.1 Rh)
30 kPa to 110 kPa
-125 Pa to +125 Pa
-500 Pa to +500 Pa

Accuracy

Gas concentration measurement (e.g., ±5% of reading).

Environmental Specifications

- Operating Temperature: 32°F to 122°F (0°C to 50°C)
- Humidity: 090% RH (noncondensing)
- IP Rating: IP65 (dust tight)

Alarm Specifications

Alarm Type: Visual

Power and Communication

- Power Supply: 120/240V AC
- Power Consumption: 15W
- Communication: RS485, Modbus