SCHÖNN
Medizintechnik GmbH

OPERATION ROOM SURGICAL CONTROL PANEL

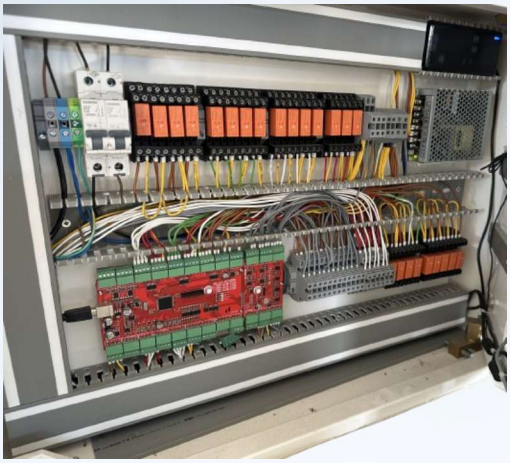


OPERATION ROOM SURGICAL CONTROL PANEL

FIGURE 1: Measuring

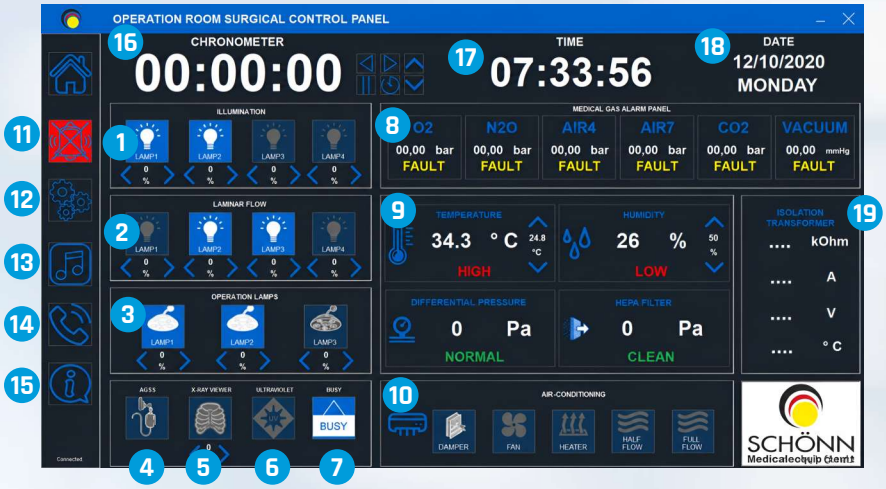
- High-speed ARM microcontroller
- "21.5" Touch Screen Display
- High-speed Windows-Based Computer
- Stainless Steel Front panel
- OT Busy Lamp On/Off Control
- General Lighting Control / with dimmer control
- Laminar Flow Control / with dimmer control
- Operation Lighting Control / with dimmer control
- UV Lamp Control
- Full flow rate, semi-flow rate controls
- Heater and fan controls
- Anaesthetic gas scavenging control
- Damper on/off control
- Temperature and Humidity Control
- Differential Pressure and Hepa Filter Control
- Negatoscope Control / with dimmer control
- Gas pressure status monitorization
- Mp3 Player
- Camera
- IP Based Phone
- Isolation Transformer
- Language selection (EN, DE, FR, RU, AR)





Technical Specification	
Brand Name	SCHÖNN
Product Name	Operation Room Surgical Control Panel
Model Name	Operation Room Surgical Control Panel - DH2017
Screen	21.5" Touch screen
Panel Material	Front panel made of stainless steel
Analog Input	6 pcs 12 bits 0-10 V, 8 pcs 12 bits 3.3 V
Analog Output	18 pcs 0-10 V
Digital Input	8 pcs
Digital Output	21 pcs
Modbus Slave Output	1 unit - for automation and BMS
Modbus Master Control	1 unit - for external hardware or sensor connections
Communication Ports	1 pcs RS485 and TTL - Provision
Processor	ARM Microcontroller
Traceable Parameters	Gas Alarm Indicators, Temperature, Humidity, Differential Proessure, Hepa Filter

OPERATION ROOM
SURGICAL CONTROL PANEL



**See below for a description of the numbered parts in the image.*

Homepage

1. General Lighting Control

- Ability to control and dim the four lighting groups separately.

2. Laminar Flow Lighting Control

- Ability to control and dim the four laminar flow lighting separately.

3. Operating Theatre Surgical Lamp Control

- Ability to control and dim the three operation lamp head control separately.

4. Ultraviolet Lamp Control

- Ability to turn the UV lamp on or off.

5. OT Busy Lamp On/Off Control

- Ability to turn the Busy lamp on or off.

6. X-Ray Viewer Control

- Ability to turn the X-Ray Viewer lamp on or off.

7. AGSS Control

- Ability to control Anesthetic gas scavenging system.

8. Medical Gas System

- Gas pressure level monitorization for six different medical gases.
- Ability to set low/high limits for six different medical gas pressure alarms.
- Visual and audible alarms according to gas pressure level or six different medical gases.
- Ability to receive and to send data to the central gas system.

9. Air Conditioning Control

Ability to;

- Monitor ambient temperature, humidity, differential pressure and Hepa-filter clean/dirty.
- Get all climate data from automation and to send data to automation (Rs485 ModBus RTU).
- Set the level of the temperature, humidity, differential pressure and Hepa filter, screen and this set levels transfer to hospital automation (Rs485 ModBus RTU).
- Visual and audio alarm for alarm situations.
- Alarm on/off for each climate control.

10. Heater, Fan, Damper, Full flow and Semi-flow Control

- On/off control for temperature, fan, damper, full flow and half flow.

11. Alarm Control

- Turning off the audible warning in the system.

12. Settings Menu

- Consisting controls for Medical Gas Alarm Panel
- Temperature, Humidity, Differential, Pressure, Hepa Filter.
- Ability to set the lower limit and higher limit settings for alarm levels.
- Ability to access phone system settings.
- Ability to create User input.

13. Hands Free Phone

- Ability to call with all phone numbers that connected to the same IP central.
- Ability to call with VoIP.
- Ability to create phone number memory.
- Ability to add/delete contacts in the phone memory.

14. Mp3 Player

- Ability to create a music list and to listen music.
- Volume level and volume on/off controls.

15. Information Menu

- Ability to give detailed information for product.

16. Chronometer

- Ability to control chronometer.

17. Time

- Indicator and control time information.

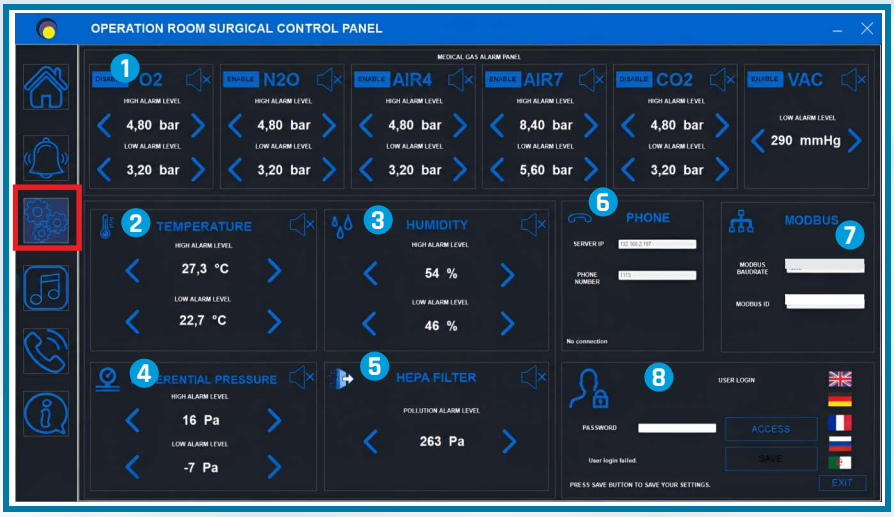
18. Date

- Indicator and control date information.

19. Isolation Transformer Signal Information Display

- Isolation transformer signal information is displayed (if necessary information provided by the manufacturer).

OPERATION ROOM
SURGICAL CONTROL PANEL



**See below for a description of the numbered parts in the image.*

Settings Page

1. Medical Gas Alarm Panel Setting

- Sets the low/high alarm levels for the medical gas pressure alarm of gases and vacuum.
- Switches alarm on/off for Medical Gas alarm.
- It is capable of receiving and sending data from the central gas system.

2. Temperature Alarm Setting

- Sets the upper/lower alarm level and the audible alarm.

3. Humidity Alarm Setting

- Sets the upper and lower alarm limits of humidity and audible alarm.

4. Pressure Alarm Setting

- Sets the upper and lower alarm level and the audible alarm.

5. Hepa Filter Alarm Setting

- Sets the upper and lower alarm level of the filter and the audible alarm.

6. Phone

- Phone IP address, number, and password is written in the section.

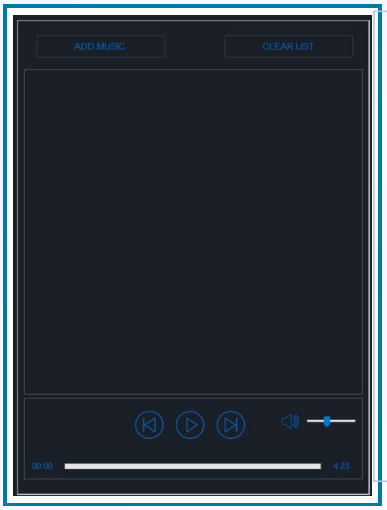
7. Modbus

- Modbus baudrate and Modbus ID are written in this section.

8. User Login

- It is the section where the system settings are changed by selecting one of the English or German languages and typing the user password.

Music Features



- Create a playlist.
- Listen to music.
- Choose between music.
- Adjust the music volume and turn the sound on/off completely.
- The user can download music to the computer and select them and listen to them on the Control panel.

Phone Features



- Calls all phone numbers connected to the same IP center.
- VoIP calls.
- Creates a phone number memory.
- Adds/deletes contacts to the phone memory.

Headquarters/Factory

Andreas-Bornes Str. 46, 41179 Mönchengladbach /Germany

+49 (0) 2161 564 5075 +49 (0) 2161 564 5074