5:1	6	00	:25	5 : 27	<u>SHD</u>	
TIME	ELAPSED TIME					
	- Lighting					
Ambient 1	Ambient 2	OT 1	OT 2	Temperature	Humidity	
∋				Set	Set	
Color Ambient —		•		Preset		
Medical Gas	02 N20 AIR7 N2 CO2			RIPE CALL	STANDBY/ CLEAN	



LINDO® TCP

DISCOVER OUR LINDO® **TOUCHSCREEN CONTROL PANEL**







ADVANTAGES & CHARACTERISTICS

Thanks to the control panel the medical team can receive information about the medical gas system, HVAC plant and electrican power supply system.

DESIGN

Attractive and modern solution to make the control panel easy to use but also complement the pleasing appearance of today's high tech operating rooms.



• Installation on different kinds of wall: gypsum board, brick wall and also other types of prefabricated wall cladding

Interactive display

Glass touchscreen



PERPICACIOUS

The control panel is easy to understand and simple to use thanks also to a modern tabletlike design similar to the smartphones we all use everyday.

The upper level displays include just the information and controls which are pertinent to the clinical users.

Detailed technical information is available in sub-menus for engineering staff should they need it



EASY CLEAN

Smooth flat surfaces are easy to wipe down. The screen is protected by a glass and the device is sealed against dust and fluids.

Flexible and user friendly in/out interface.

Control Panel is easily suitable to be placed in controlled bacterial contamination operating areas. Moreover the panel can be used with or without surgical gloves.







MEDICAL GAS PAGE



POWER PAGE



VENTILATION PAGE

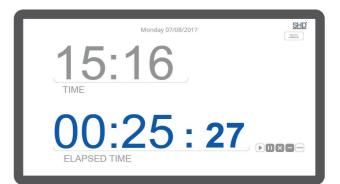




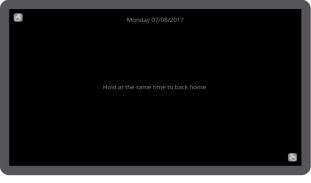
LIGHTING PAGE



CONTROL PAGE



TIME PAGE



STAND-BY / CLEANING PAGE

LINDO[®] TOUCHSCREEN CONTROL PANEL FOR OPERATING ROOMS

FUNCTION AND CONTROLS	STANDARD VERSION	OPTIONAL
Control of Operating Lights		
Ambient 1/2 (ON/OFF)	×	
Ambient 1/2 dimming (DALI/DMX)	×	
OT1/OT2 - surgical lamps (ON/OFF)	×	
OT - surgical lamps dimming (verify communication protocol)		×
Colour Ambient RGBW (ON/OFF) and dimming (DALI/DMX)		×
Timing		
Time and calendar	×	
Main timer/chronometer	×	
2x Additional chronometers	×	
Ventilation		
Ventilation (ON/OFF)	×	
Ventilation setback (ON/OFF)	×	
Laminar flow alarms	×	
Temperature and humidity set point (ON/OFF)	×	
Temperature and humidity visualization (0-10V / 4-20mA) (optional sensors)	×	
Differential Temperature and humidity alarm	×	
Differential atmospheric pressure alarm (0-10V (optional sensors)	×	
Differential HEPA filter pressure alarm (0-10V) (optional sensors)	×	
Integration control BMS with protocol to be define with plan supplier		×
Gas		
2 level gas alarm (low/high pressure) (ON/OFF) (optional sensors)	×	
Pressure measurement of gas (0-10V) (optional sensors)		×
Agss pump start/alarm/fault (ON/OFF)	×	
Power		
USP/IPS/MAIN alarm (ON/OFF)	×	
Controls		
Free/in use/cleaning/xray signalling (on/off)	×	
Shutters	\times	
Doors	×	
Digital glass	×	
Memory presets		
Lighting and ventilation presets	×	
Communication		
Communication protocols MODBUSTCP and PROFINET	×	
Standalone configuration (see page 6)	×	
Intranet and cloud configuration (see page 6)		×
Software client for intranet/cloud		×
Multimedia control for music		×
Ups predisposition (optional UPS)*	×	
Remote manual control for lighting (optional CONTROL)*	×	

CONNECTION

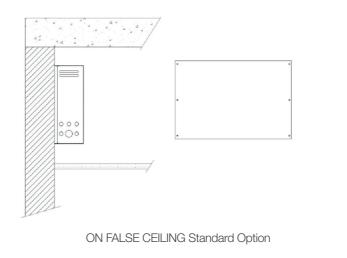




STANDALONE (standard option)

Accessible from any PC, laptop, tablet or smartphone without having to download any applications. Compa- tible with most popular browsers gives you access and functionality INSIDE THE HOSPITAL NETWORK, whit the possibility of data backup.

FASTENING OF PLC BOX



FASTENING OF LINDO® TOUCHSCREEN CONTROL PANEL BOX







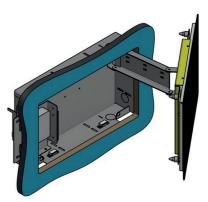


Accessible from any PC, laptop, tablet or smartphone without having to download any applications. Compa-tible with most popular browsers gives you access and functionality WHEREVER YOU ARE, whit the possibility of data backup.





RECESSED



OPTIONAL ACCESORIES



DIFFERENTIAL PRESSURE MEASURING FOR AMBIENT

- To measure the differential pressure between the operating room and the external area
- Analog output 0-10V
- Alarm displayed on LINDO[®] TOUCHSCREEN OPERATING ROOM CONTROL PANEL
 Included adaptor for false ceiling
- DIFFERENTIAL PRESSURE MEASURING FOR HEPA FILTER
- To measure the differential pressure between input and output of HEPA filter
- Analog output 0-10V
- Alarm displayed on LINDO® TOUCHSCREEN OPERATING ROOM CONTROL PANEL

TEMPERATURE AND HUMIDITY MEASURING FOR AMBIENT

- To measure the temperature and humidity in the OR (0 50°C / 0 100%)
- 2x Analog output 0-10V
- Both value displayed on LINDO® TOUCHSCREEN OPERATING ROOM CONTROL PANEL



PRESSURE TRANSMITTER FOR MEDICAL GASES

- Pressure measure from 0 to 16 bar
- Analog output 0-10V
- For O2, AIR4, AIR8,N2O,CO2,N,ENX
- With cable 1,5mt
- Value displayed on LINDO® TOUCHSCREEN OPERATING ROOM CONTROL PANEL



DOUBLE STATE PRESSURE SWITCH FOR MEDICAL GAS

- Pressure switch calibrated 3,2 (low level)
- Pressure switch calibrated 4,8 (high level)
- For O2, AIR4,N2O,CO2,N,ENX
- With cable 1,5mt
- Alarm displayed on LINDO® TOUCHSCREEN OPERATING ROOM CONTROL PANEL

DOUBLE STATE PRESSURE SWITCH FOR AIR 8 BAR

- Pressure switch calibrated 6,4 (low level)
- Pressure switch calibrated 9,6 (high level)
- For AIR8
- With cable 1,5mt
- Alarm displayed on LINDO® TOUCHSCREEN OPERATING ROOM CONTROL PANEL



VACUUM SWITCH FOR VAC

- Vacuum switch calibrated -0,4 bar
- With cable 1,5mt
- Alarm displayed on LINDO® TOUCHSCREEN OPERATING ROOM CONTROL PANEL



FINISHING FRAME

- To cover hole
- For 22" touch screen



UPS SYSTEM

To have continuous supply to touch screen in case of blackout Manual emergency controls to control



MANUAL EMERGENCY CONTROLS

To control lighting and other basically device in case of blackout or emergency

TECHNICAL DATA SHEET

DISPLAY

Display	21.5" /31.5" TFT LCD LED Backlight /
Active Display Area	Active Display Area 476.6 x 268.1 mm / 18.76
Aspect Ratio	16:9
Native Resolution	1920 x 1080 at 50, 60 Hz
Colors	16.7 million
Brightness (typical)	LCD Panel: 250 nits;
Response (typical)	5ms
Viewing Angle	Horizontal: 85°/170°; Vertical: 80°/160°
Contrast Ratio	1000:1
Power Consumption	ON (monitor + power brick): 18W SLEEP (mo
Temperature	Operating: 0 °C to 40 °C (32 °F to 104 °F); St
Humidity	Operating: 20% to 80%; Storage: 10% to 95%
Benefits	PCAP 2GS (two glass solution) offers pristine High definition LCD display offers ultimate HD LED backlighting allows for state-of-the-art sli 10 touch projected capacitive (PCAP) with Thr

HARDWARE

CPU	Intel processor, 4GB RAM, 64GB SSD, Win10
PLC	Siemens S7 -

Siemens core components are used beacuse of the brand and The number of inputs and outputs both digital and analogue c

REGULATION

The equipment should be considered Class I CE marked Low voltage directive (LVD) 2014/35/UE Electromagnetic compatibility (EMC) 2014/30/UE



76 x 10.55 inches
onitor + power brick): 1.5W OFF (monitor + power brick): 0.5W
Storage: -20 °C to 60 °C (-4 °F to 140 °F)
5%
e optical clarity and touch durability D interactivity, clarity and resolution Iim design while reducing power consumption nru-glass capabilities that passes UL-60950 & IK-07 Impact testing

0 Pro

d its spare parts globally available.	
an be modified (with additional costs)	

MADE IN ITALY