starkstrom
a Progility company
Powering Healthcare

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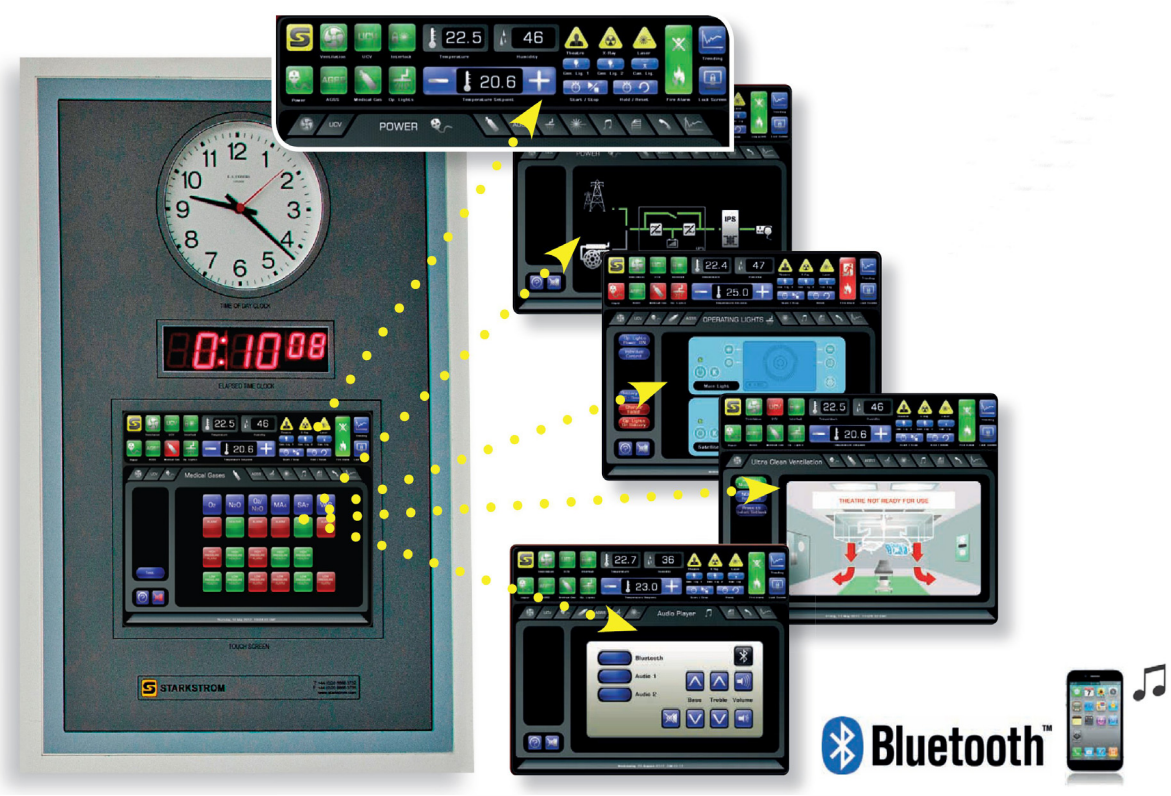
Touch Screen Theatre Control Panel (eTCP17)



Features and benefits

- Infection control friendly and easy to clean with complete integral membrane and high IP rating – IP43
- Small, light and compact requiring little additional work or expense to support the panel within the wall
- Can incorporate low IP rated equipment in separate membrane panel which does not have the full integrity of the main panel
- Matching X-ray / PACS viewers available
- Flexibility to accommodate late changes in the specifications by way of software updates
- Touch-screen is capable of being linked to BMS for easy access to theatre environment
- Easy to upgrade and accommodate new theatre innovations by software alone. Minimum theatre downtime to upgrade audio speaker system.
- The panel has two distinct Buzzer/Alarms, Standard and the Medical Gas Alarm for faults on the Medical Gases. There is also an alarm mute feature for use during Maintenance
- Choice of analogue or digital time of day clocks
- Maximum panel depth of 150mm enabling easier installation in standard wall depths. No need to build wall panels to suit panel depth
- Modern appearance complementing today's high tech theatres
- Cost saving as no need to purchase traditional free issue equipment like medical gas alarms, temperature/humidity indicators
- No approval required to allow panel manufacture
- Proven reliability with Allen Bradley PLCs, with fewer points of failure than sTCP and distributed I/O systems
- Ability to store all product electronic O&M manuals and any other pertinent or relevant information for ease of retrieval
- Operating Lights (main and satellite), General Lights and Illuminated Warning Signs can be controlled (switched/dimmed) through the panel
- Integration of other manufacturer's op-light, audio, interlock or ventilation controls
- Choice of orientation - portrait/landscape

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Product Specification

Supply Voltage	
Supply Voltage (24VDC supply version also available)	110V to 120V 60Hz or 230 to 240VAC 50Hz
Supply Voltage Tolerance	-10%, +10%
Frequency	50 Hz/60Hz
Power Supply Usage (max)	500VA
Supply Disconnect Switch Rating	100A
Max. Supply Cable CSA	25.0mm
Internal Control Voltage Power Supply	
Series	1606
Model	1606-XLP100E
Supply Voltage	85 … 264VAC
Output Voltage	24 … 28VDC
Output Current	4.2A
Short Circuit Current @ 25°C	7.1A
Efficiency	90%
PFC Harmonics	EN 61000-3-2
Parallel Operation	Possible
MTBF	500,000 hrs
Touch Screen	
Series	FDK-R
Processor	Intel Atom N270/Celeron J1900
Size	17″
Screen Type	Colour Active Matrix
Touch Type	Analogue Resistive
Resolution	1280x1024
Active Image Area	337x269mm
Ports	4 x Serial / Ethernet / USBx4
Brightness (cd/m^2)	250nits
Number of Colours	24bit
Supply Voltage	24 VDC
Operating System	Windows XP embedded/Windows 7 embedded
Expansion system	Dual PCIe mini slots
Storage	1 x Integrated HDD plus 1 x compact flash
Logic Controller	
Series	MicroLogix 1200
Model	1762-L40BWAR (Twin Port Model)
Onboard Inputs (0 … 1kHz)	20 Digital Inputs (24VDC)
Onboard Fast Count Inputs (0 … 20kHz)	4 Fast Count Digital Inputs (24VDC)
Onboard Outputs	16 Relay Outputs (Volt Free)
EMC Immunity	EN 50082-2
EMC Emission	EN 50081-2
Comms. Protocols – Channel 0	DH-485 / DF1 Full Duplex / DF1 Half DuplexDF1 Radio Modem / Modbus Master and Slave / ASCII
Comms. Protocols – Channel 1	DF1 Full Duplex Only
Fieldbus – Modbus (Optional)	Yes, with add-on Allen Bradley 1761-NET-AIC
Fieldbus – Modbus	RTU Master or RTU Slave
Fieldbus – DeviceNet (Optional)	Yes, with add-on Allen Bradley 1761-NET-DNI
Programming Software	RS Logix 500 / 5000
Power Supply	85 … 264VAC
Power Supply Frequency	47 … 63 Hz
Power Supply Inrush	120VAC: 25A for 8ms, 240VAC: 40A for 4ms
Heat Dissipation	22.0 W
Power Supply Usage	82VA
Shock Operating / Relay / Non-Op.	30G / 7G / 40G
Connection Type	Finger Safe Screw Terminals
Cross Sections Solid / Stranded	#14 to #22 AWG / #16 to #22 AWG
Screw Terminal Torque	0.791 Nm

Analogue Inputs	
Series	MicroLogix 1200
Model	1762-IF2OF2
Format	Expansion Card
Type	0-10V or 4-20mA Selectable
Voltage Input Protection	±30VDC
Current Input Protection	±32mA
Common Mode Voltage Range	±27V
Input Impedance Voltage / Current	200kΩ / 250Ω
Electrical Isolation	500VAC or 707VDC for 1 minute
Resolution	12 bits
Repeatability	±0.1%
Typical Conversion Time	2.5ms
Recommended Cable	Belden 8761 (Screened)
Analogue Outputs	
Series	MicroLogix 1200
Model	1762-IF2OF2
Format	Expansion Card
Type	0-10V or 4-20mA Selectable
Voltage Input Protection	±30VDC
Current Input Protection	±32mA
Common Mode Voltage Range	±27V
Electrical Isolation (peak)	500VAC (707VDC for 1 minute)
Resolution	12 bits
Repeatability	±0.1%
Typical Conversion Time	4.5ms
Recommended Cable	Belden 8761 (Screened)
Digital Inputs	
Format	Main Unit Integrated / Expansion Available
Signal Voltage (0)	0 … 5V
Signal Voltage (1)	10 … 24V
On State Current	7.3 … 8.9mA @ 24VDC
Off State Leakage Current	1.5mA min.
Input Resistance	2.7 … 3.3kΩ
Digital Outputs	
Format	Main Unit Integrated / Expansion Available
Interface Relays	Omron G2R1 24VDC Plug-In
Output Type	Volt Free Clean Contact
Max. Switching Current	10A AC-1
Turn On / Turn Off Time	10msec min. ScanTD
Buzzer	
Buzzer Message	Acknowledge to mute
Buzzer Sound Level	l 92db
Buzzer Frequency	440Hz/880Hz
Buzzer Repetition	Programmable
Buzzer/Alarm Types	Standard Alarm and Medical Gas Alarm
Maintenance Mute	Available within Panel
Terminal Connections	
Manufacturer	Weidmuller
Series	WDU / WPE
Input Terminals	4.0mm Single
Output Terminals	4.0mm Twin
Analogue Terminals	2.5mm Triple
Power Terminals	6.0mm Single min.
Environmental Requirements	
Operating Temperature	0 … 50°C
Operating Humidity	10 … 90%RH NonCon
Storage Temperature	-40 … +85°C