

#### Description

##### Magelis STU Small Panels 3.5"

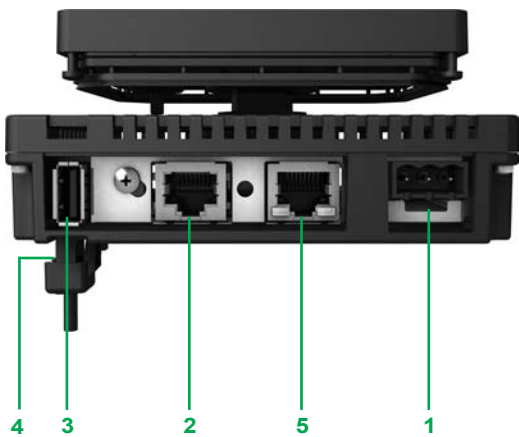


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#### Front module

The front panels of Magelis STU 655 Small Panels comprise:

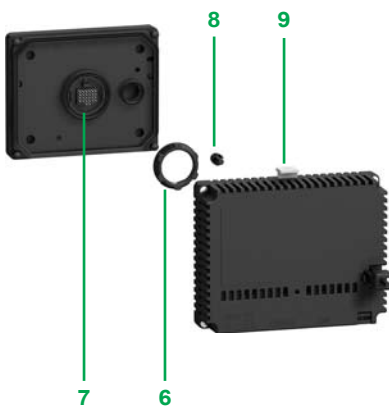
- 1 A touch screen for displaying synoptic views (3.5" colour TFT)



#### Rear of product

Magelis STU 655 Small Panels have the following on the rear:

- 1 A removable screw terminal block for the 24 V  $\overline{\text{---}}$  power supply
- 2 An RJ45 connector for RS 232C or RS 485 serial link connection to PLCs (COM1)
- 3 A USB type A host connector for:
  - Connection of a peripheral device
  - Connection of a USB memory stick
  - Application transfer
- 4 A USB mini-B device connector for application transfer (on the left-hand side)
- 5 An RJ45 connector for the Ethernet TCP/IP 10BASE-T/100BASE-TX link



#### Fixing system

A Magelis STU Small Panel is made up of a front module (comprising the screen) and a rear module (comprising the CPU plus terminals and connectors). The two modules are fixed together by means of a hole measuring 22 mm in diameter. The fixing system contains the following elements:

- 6 An adjusting nut
- 7 A seal
- 8 An anti-rotation tee (can be used as an option)
- 9 A release mechanism: simply press to separate the two modules once they have been fixed together

<b>Type of terminal</b>		<b>HMI STU 655</b>	
<b>Environment</b>			
<b>Conformity to standards</b>		EN 61131-2, IEC 61000-6-2, FCC (Class A), UL 508, UL 1604	
<b>Product certifications</b>		CE, cULus, Class 1 Div 2 T4A or T5 (UL), C-Tick	
<b>Temperature</b>	Operation	0...50°C	
	Storage	-20...+60°C	
<b>Relative humidity</b>		0...85% (non-condensing)	
<b>Altitude</b>		< 2000 m	
<b>Degree of protection</b>	Front panel	IP 65 conforming to IEC 60529, Nema 4X (indoor use)	
	Rear panel	IP 20 conforming to IEC 60529	
<b>Shock resistance</b>		Conforming to IEC 60068-2-27; semi-sinusoidal pulse 11 ms, 15 gn on the 3 axes	
<b>Vibrations</b>		Conforming to IEC 60068-2-6; 5...9 Hz at 3.5 mm; 9...150 Hz at 1 gn	
<b>E.S.D.</b>		Conforming to IEC 61000-4-2, level 3	
<b>Electromagnetic interference</b>		Conforming to IEC 61000-4-3, 10 V/m	
<b>Electrical interference</b>		Conforming to IEC 61000-4-4, level 3	
<b>Mechanical characteristics</b>			
<b>Mounting and fixing</b>	Mounting on 1.6...5 mm thick panel	By means of a 22 mm diameter hole and nut (supplied)	
<b>Material</b>	Case	Polycarbonate/polybutylene terephthalate alloy	
<b>Keys</b>		-	
<b>Electrical characteristics</b>			
<b>Power supply</b>	Voltage	24 V ---	
	Limits	20.4...28.8 V ---	
	Voltage break	≤ 10 ms	
<b>Inrush current</b>		≤ 30 A	
<b>Consumption</b>		6.5 W	
<b>Functional characteristics</b>			
<b>LCD screen</b>	Type	Colour TFT	
	Colour	65,536 colours	
	Definition	320 x 240 pixels	
	Size (W x H)	3.5" (70.6 x 52.9 mm)	
	Touch-sensitive area	Analog	
	Backlighting (service life)	50,000 hours	
	Adjustments	Brightness	16 levels
	Character fonts		ASCII, Japanese (Kana, Kanji), Chinese (simplified Chinese), Taiwanese (traditional Chinese), Korean
<b>Dialogue application</b>	Max. number of pages	Limited by capacity of internal Flash EPROM memory	
<b>Operating system/processor</b>	Magelis RISC CPU	333 MHz	
<b>Memory</b>	Application	Flash EPROM	16 MB
	Data backup		64 KB FRAM
<b>Schneider Electric protocols</b>	Modicon		Modbus, Uni-TE and Modbus TCP/IP
<b>Third-party protocols</b>	Mitsubishi	Melsec	A Link (SIO), A/Q Ethernet (TCP), Q Ethernet (UDP)
	Omron	Sysec	FINS (SIO), LINK (SIO), FINS (Ethernet)
	Rockwell Automation Allen-Bradley		DF1-Full Duplex, DH 485, PLC5, SLC500, MicroLogix, ControlLogix Ethernet IP (PLC5, SLC500, MicroLogix, ControlLogix), Ethernet IP (native)
	Siemens	Simatic	MPI (S7-300/400), PPI (S7-200) Profinet (ISO-on-TCP)
<b>Connection</b>	Power supply		Removable screw terminal block: 3 terminals (pitch 5.08 mm), tightening torque 0.5 Nm
	COM1 serial link (115.2 kbps max.)		RJ45 connector (RS 232C/RS 485 serial link), compatible with Siemens MPI (187.5 kbps)
	USB port (V2.0) for application transfer, peripheral connection and Modicon M340 terminal port communication		Type: A host
	USB port (V2.0) for application transfer		Type: Mini-B device
	Ethernet TCP/IP network		RJ45 connector (10BASE-T/100BASE-TX)