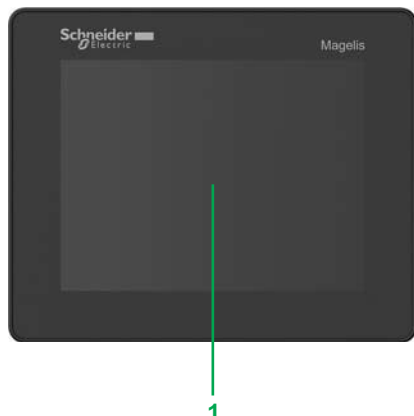


Description

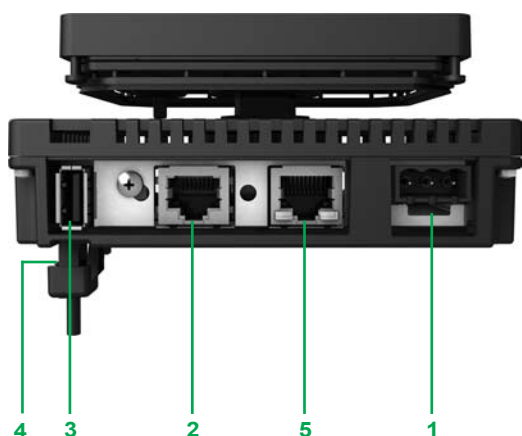
Magelis STU Small Panels 3.5"



Front module

The front panels of Magelis STU 655 Small Panels comprise:

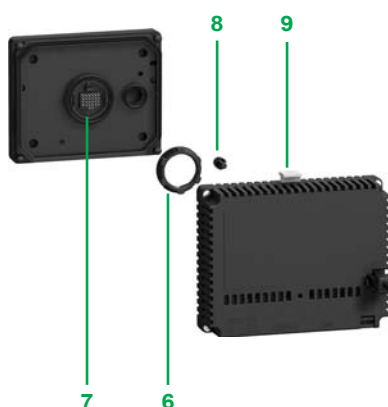
- 1 A touch screen for displaying synoptic views (3.5" colour TFT)



Rear of product

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

- 1 A removable screw terminal block for the 24 V $\bar{\text{V}}$ 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

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

Main

Range of product	Magelis STO & STU
Product or component type	Touch panel screen
Software designation	Vijeo Designer
Operating system	Magelis
Processor name	CPU RISC

Complementary

Display size	3.5 inch
Display type	QVGA TFT colour touchscreen
Display colour	65536 colours
Pixel resolution	320 x 240 pixels
Touch panel	Analogue
Brightness	16 levels
Character font	ASCII Chinese (simplified Chinese) Japanese (ANK, Kanji) Korean Taiwanese (traditional Chinese)
Supply	External source
Supply voltage limits	20.4...28.8 V
Inrush current	≤ 30 A
Power consumption	6.5 W
Number of pages	Limited by internal memory capacity
Processor frequency	333 MHz
Realtime clock	Access to the PLC real-time clock
Downloadable protocols	Modbus Modbus TCP/IP Uni-TE Third party protocols
Enclosure material	PPT
Marking	CE
Height	98.15 mm
Width	118 mm

Depth	55.3 mm
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Environment

Immunity to microbreaks	≤ 10 ms
Standards	EN 61131-2 FCC Class A IEC 61000-6-2 UL 1604 UL 508
Product certifications	C-Tick UL class 1 Div2 T4A ou T5 cULus
Ambient air temperature for operation	0...50 °C
Ambient air temperature for storage	-20...60 °C
Operating altitude	≤ 2000 m
Vibration resistance	1 gn (f = 9...150 Hz) conforming to IEC 60068-2-6 +/- 3.5 mm (f = 5...9 Hz) conforming to IEC 60068-2-6
Resistance to electromagnetic fields	10 V/m conforming to IEC 61000-4-3