

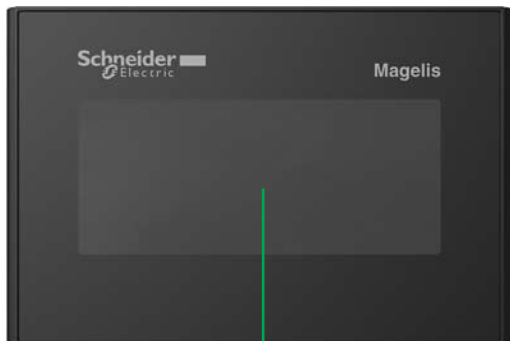
Description

Magelis STO Small Panels 3.4"

Front panel

The front panels of Magelis STO 511 and STO 512 Small Panels comprise:

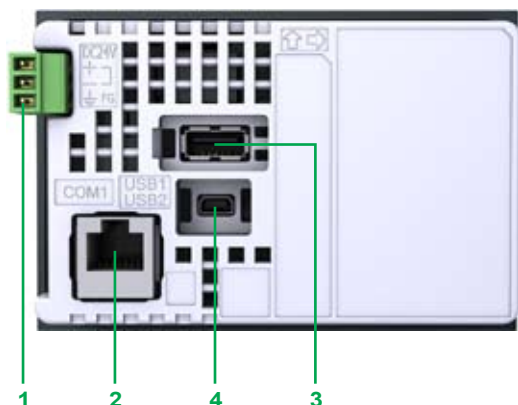
- 1 A touch screen for displaying synoptic views (3.4" monochrome) with:
 - Green, orange or red backlighting in the case of HMI STO 511
 - White, pink or red backlighting in the case of HMI STO 512



Rear panel

Magelis STO 511 and STO 512 Small Panels have the following on the rear panel:

- 1 A removable screw terminal block for the 24 V $\overline{\text{DC}}$ 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
 - Modicon M340 terminal port communication
- 4 A USB mini-B device connector for application transfer



Type of terminal			HMI STO 511	HMI STO 512
Environment				
Conformity to standards			EN 61131-2, IEC 61000-6-2, FCC (Class A), UL 508, UL 1604	
Product certifications			CE, cULus, CSA, Class 1 Div 2 T4A or T5 (UL), C-Tick	
Temperature	Operation		0...50°C	
	Storage		-20...+60°C	
Relative humidity			0...90% (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		Flush mounted, fixed by 2 spring clips (included)	
Material	Case		Polycarbonate/polybutylene terephthalate alloy	
Electrical characteristics				
Power supply	Voltage		24 V ---	
	Limits		19.2...28.8 V ---	
	Voltage break		≤ 3 ms	
Inrush current			≤ 30 A	
Consumption			5 W	
Functional characteristics				
LCD screen	Type		Backlit monochrome STN	
	Backlighting colour		Green, orange or red	White, pink or red
	Grey levels		16 grey levels	
	Definition		200 x 80 pixels	
	Size (W x H)		3.4" (79.9 x 31.9 mm)	
	Touch-sensitive area		Analog	
	Backlighting (service life)		50,000 hours used in green or white mode, 10,000 hours used in red mode	
	Adjustments	Brightness	8 levels	
		Contrast	16 levels via touch panel	
	Character fonts		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	
Signalling			1 LED: green for normal operation	
Operating system/processor		Magelis RISC CPU	333 MHz	
Memory	Application	Flash EPROM	16 MB	
	Data backup		128 KB used in Flash	
Schneider Electric protocols		Modicon	Modbus, Uni-TE	
Third-party protocols	Mitsubishi	Melsec	A Link (SIO)	
	Omron	Sysmac	FINS (SIO), LINK (SIO)	
	Rockwell Automation	Allen-Bradley	DF1-Full Duplex, DH 485, PLC5, SLC500, MicroLogix, ControlLogix	
	Siemens	Simatic	MPI (S7-300/400), PPI (S7-200)	
Connection	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	