Operator dialogue terminals
Small Panels with touch screen
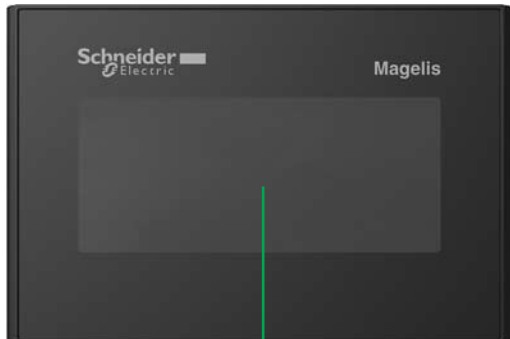Magelis STO 3.4"

Description
Magelis STO Small Panels 3.4"

1

Front panel

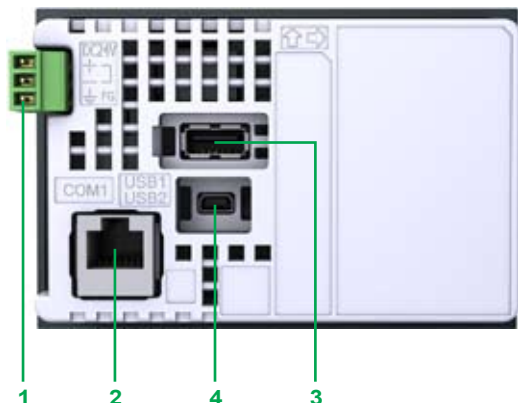The front panels of Magelis STO 511 and STO 512 Small Panels comprise:

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

1   2   4   3

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 ⎓ 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

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version: 1.0

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Operator dialogue terminals
Small Panels with touch screen
Magelis STO 3.4"

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	