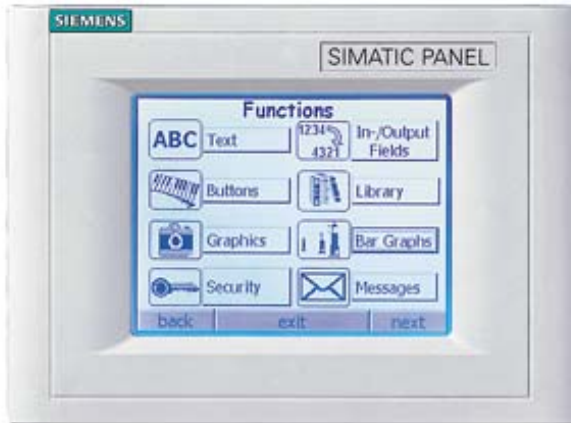


Spare part SIMATIC Touch Panel TP 170A blue mode STN display MPI/PROFIBUS DP interface configurable with ProTool/Lite From Version V5.2



Display	
Design of display	STN, 4 blue levels
Screen diagonal	5.7 in
Resolution (pixels)	
• Horizontal image resolution	320 Pixel
• Vertical image resolution	240 Pixel
Backlighting	
• MTBF backlighting (at 25 °C)	50 000 h
Control elements	
Control elements	Touch screen
Keyboard fonts	
• Numeric keyboard	Yes
• alphanumeric keyboard	Yes
• hexadecimal keyboard	Yes
• Multi-key operation	No
Touch operation	
• Design as touch screen	Yes; analog, resistive
Connection type	

- Type of connection for mouse/keyboard/barcode reader

- / - / -

Installation type/mounting

Mounting position	vertical
maximum permissible angle of inclination without external ventilation	35°

Supply voltage

UPS connectable (serial)	No
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Input current

Current consumption (rated value)	0.24 A
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Processor

Processor type	RISC 32-bit
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Drives

Diskette drive	No
CD-ROM	No
Hard disk	No

Memory

Type of memory	Flash / RAM
Memory available for user data	320 kbyte

Battery

Backup battery

- Backup battery (optional) No
- Backup time, min. 0 y

Type of output

Info LED	No
Power LED	No
Error LED	No

Time of day

Clock

- Type Software clock, no battery backup
- retentive No
- synchronizable No

Interfaces

Interfaces/bus type	TTY optional, 1 x RS232, 1 x RS422, 1 x RS485 (max. 1.5 Mbit/s)
Number of RS 485 interfaces	1
• Transmission rate, max.	1.5 Mbit/s
USB port	No
PC card slot	No
CF card slot	No

Degree and class of protection	
IP (at the front)	IP65
NEMA (front)	NEMA 4 (when installed)
IP (rear)	IP20

Standards, approvals, certificates	
Certifications	CE, FM Class I Div. 2, UL, CSA, cULus, NEMA 4

Ambient conditions	
Ambient temperature during storage/transportation	
• min.	-20 °C
• max.	60 °C
Relative humidity	
• Operation, max.	85 %

Operating systems	
pre-installed operating system	Windows CE

Configuration	
Configuration software	
• Configuration tool	ProTool / Lite, Version 5.2 SP 1 or higher or WinCC flexible Compact Version 2004 or higher (to be ordered separately)

Languages	
Online languages	
• Number of online/runtime languages	5
Project languages	
• Languages per project	32

Functionality under WinCC (TIA Portal)	
Libraries	Yes
Number of Visual Basic Scripts	
• Debugging in the simulator	No
Task planner	No
Help system	
• Number of characters per info text	0
• Number of tooltips	0
Message system	
• Number of alarm classes	32
• Number of messages	1 000
• Bit messages	Yes
— Number of bit messages	1 000
• Analog messages	No
— Number of analog messages	0
• Telegram message procedure Alarm S	No
• System messages HMI	Yes

• System messages PLC	No
• System messages, other (SIMATIC S7, Sinumerik, Simotion, etc.)	No
• Lines	1
• Number of characters per message	80
• Number of process values per message	8
• Acknowledgment groups	Yes
• Message indicator	No
• acoustic feedback	No
• First/last value	Yes
Variables	
• Number of variables per device	500
• Number of variables per screen	20
• Limit values	Yes
• Multiplexing	No
• Structures	No
Images	
• Number of configurable images	250
• Permanent window/default	Yes
• Start screen configurable	Yes
• Image number in the PLC	Yes
Image objects	
• Text objects	1,000 text elements
• Number of I/O fields per image	20
• Number of date/time fields	0
• Index of screen context	No
• Return	Yes
• Graphics object	Bit maps, icons, icon (full-screen)
— Icons	1 000
— Icon (full screen)	1
Complex image objects	
• Status/control	Not possible
• dynamic objects	Bar graphs
— Number of objects per project	1 250
• Bar graphs	
— Number of bars per chart	5
• Sliders	
— Number of slides per image	0
• Pointer instruments	
— Number of analog indicators per image	0
• Limit value lines	Yes

• Number of alphanumeric fields	0
— alphanumeric fields per image	0
• Number of numerical fields	0
— numerical fields per image	0
• Number of password fields	0
• Number of visible switches per project	0
— visible switches per image	0
— hidden switches per image	0
• Number of status switches per project	0
— Number of status switches per image	0
• Number of selector switches per project	0
— Selector switches per image	0
• Number of decade switches per project	0
— Decade switches per image	0
• Number of signal lamps per project	0
— Signal lamps per image	0
Attributes for dynamic objects	
• Color change	No
• X/Y movement	No
• Hide	Yes
• Angle of rotation	No
Lists	
• Number of text lists per project	0
• Number of graphics lists per project	0
Security	
• Number of users	1
• Password export/import	Yes
Transfer (upload/download)	
• Transfer of configuration	MPI/PROFIBUS DP, serial, automatic transfer recognition
Process coupling	
• Connection to controller	S5, S7-200, S7-300/400, TI 505, Win AC, Allen Bradley (DF1), Allen Bradley (DF485), Mitsubishi (FX), OMRON (LINK/Multilink), Modicon (Modbus), further non-Siemens drivers, see chapter "System interfaces"
• S7-200	Yes
— PPI (point-to-point)	Yes
— PPI network	Yes
— MPI	Yes
— PROFIBUS DP	Yes
• S7-300/400	Yes
— MPI	Yes
— PROFIBUS DP	Yes

— PROFINET	No
• S5	Yes
— serial	Yes
— PROFIBUS DP	Yes
• TI 505	Yes
• Allen Bradley (DF1)	Yes
• Allen Bradley (DF485)	Yes
• Mitsubishi (FX)	Yes
• Mitsubishi (MP4)	No
• Telemecanique (ADJUST)	No
• Telemecanique (Uni-Telway)	Yes
• OMRON (LINK/Multilink)	Yes
• Modicon (Modbus)	Yes
• GE-Fanuc (SNP)	Yes
Functions	
• Key repeat	No
• TAB sequence	Yes
• Calculating functions	Yes
• Animate	No
• Menu tree editor	No
• Unit switchover	No
Service tools/configuration aids	
• Clean screen	Yes
• Touch calibration	Yes
• Backup/Restore manually	Yes
• Simulation	Yes
• Device switchover	Yes
• Delta transfer	Yes
• Monitoring function for battery and memory	No
• Trace (operation archive)	No
Peripherals/Options	
Peripherals	none
Dimensions	
Width of the housing front	212 mm
Height of housing front	156 mm
Overall depth	45 mm
Weights	
Weight (without packaging)	0.7 kg
Other	
free hotline	Yes

Warranty period

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last modified:

02/27/2018