

\*\*\* SPARE PART\*\*\* SIMATIC TOUCH PANEL TP 177A 5,7" BLUE  
 MODE STN-DISPLAY, MPI/PROFIBUS-DP INTERFACE,  
 CONFIGURABLE WINCC FLEXIBLE 2004 COMPACT HSP  
 UPWARDS; CONTAINS OPEN-SOURCE-SW, WHICH IS  
 PROVIDED FREE OF CHARGE. FOR DETAILS SEE ENCLOSED  
 CD

Display	
Design of display	STN
Screen diagonal	5.7 in
Number of colors	4
Color type	Blue levels
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/alphabetical input	Yes / Yes
— hexadecimal keyboard	Yes
• Multi-key operation	No
Touch operation	
• Design as touch screen	Yes; analog, resistive
Connection type	
• Connection for mouse/keyboard/barcode reader	- / - / -
Installation type/mounting	
Mounting position	vertical
maximum permissible angle of inclination without external ventilation	35°
Input current	
Current consumption (rated value)	0.24 A
Starting current inrush I <sup>2</sup> t	0.5 A <sup>2</sup> ·s
Power	
Active power input, typ.	6 W
Processor	

Processor type	ARM
<b>Memory</b>	
Type of memory	Flash / RAM
Memory available for user data	512 kbyte
<b>Type of output</b>	
Info LED	No
Power LED	No
Error LED	No
<b>Time of day</b>	
<b>Clock</b>	
<ul style="list-style-type: none"> <li>• Type</li> </ul>	Software clock, no battery backup
<ul style="list-style-type: none"> <li>• retentive</li> </ul>	No
<ul style="list-style-type: none"> <li>• synchronizable</li> </ul>	No
<b>Interfaces</b>	
Interfaces/bus type	1 x RS422, 1 x RS485 (max. 1.5 Mbit/s)
Number of RS 485 interfaces	1
<ul style="list-style-type: none"> <li>• Transmission rate, max.</li> </ul>	1.5 Mbit/s
USB port	No
PC card slot	No
CF card slot	No
Multimedia card/SD card slot	No
<b>Industrial Ethernet</b>	
<ul style="list-style-type: none"> <li>• Industrial Ethernet interface</li> </ul>	No
<b>Degree and class of protection</b>	
Front	IP65, NEMA 4x (when installed)
IP (at the front)	IP65
IP (rear)	IP20
<b>Standards, approvals, certificates</b>	
Certifications	CE, GL, ABS, BV, DNV, LRS, FM Class I Div. 2, UL, CSA, cULus, C-TICK, NEMA 4x
cULus	Yes
EAC (formerly Gost-R)	No
<b>Marine approval</b>	
<ul style="list-style-type: none"> <li>• Germanischer Lloyd (GL)</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• American Bureau of Shipping (ABS)</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• Bureau Veritas (BV)</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• Det Norske Veritas (DNV)</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• Lloyds Register of Shipping (LRS)</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• Nippon Kaiji Kyokai (Class NK)</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• Polski Rejestr Statkow (PRS)</li> </ul>	No

Use in hazardous areas	
• FM Class I Division 2	Yes
• EX zone 2	No
• EX zone 22	No

  

Ambient conditions	
Ambient temperature during storage/transportation	
• min.	-20 °C
• max.	60 °C

  

Relative humidity	
• Operation, max.	90 %

  

Operating systems	
pre-installed operating system	LINUX

  

Configuration	
Configuration software	
• Configuration tool	WinCC flexible Compact Version 2004 SP1 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	Yes
Help system	Yes
• Number of characters per info text	320
• 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	Yes
— Number of analog messages	0
• Telegram message procedure Alarm S	No
• System messages HMI	Yes
• System messages PLC	Yes

• 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	Yes
• acoustic feedback	No
• First/last value	Yes
<b>Recipe management</b>	
• Number of recipes	5
• Data records per recipe	20
• Entries per data record	20
• Recipe memory	32 KB integrated Flash
<b>Variables</b>	
• Number of variables per device	500
• Number of variables per screen	30
• Limit values	Yes
• Multiplexing	Yes
• Structures	No
<b>Images</b>	
• Number of configurable images	250
• Permanent window/default	Yes
• Start screen configurable	Yes
• Image selection by PLC	Yes
• Image number in the PLC	Yes
<b>Image objects</b>	
• Text objects	1,000 text elements
• Number of I/O fields per image	30
• Index of screen context	No
• Return	No
• Graphics object	Bit maps, icons, icon (full-screen), vector graphics
— Icons	1
— Icon (full screen)	1
<b>Complex image objects</b>	
• Status/control	Not possible
• dynamic objects	Diagrams, bar graphs
— Number of curves per diagram	1
• Bar graphs	
— Number of bars per chart	5
• Limit value lines	Yes
<b>Attributes for dynamic objects</b>	

• Color change	No
• X/Y movement	No
• Hide	Yes
• Angle of rotation	No
<b>Lists</b>	
• Number of text lists per project	150
• Number of graphics lists per project	100
<b>Security</b>	
• Number of user groups	50
• Number of user rights	32
• Password export/import	Yes
<b>Transfer (upload/download)</b>	
• Transfer of configuration	MPI/PROFIBUS DP, serial, automatic transfer recognition
<b>Process coupling</b>	
• Connection to controller	S7-200, S7- 300/400, Win AC see section on "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	No
— serial	No
— PROFIBUS DP	No
• TI 505	No
• Allen Bradley (DF1)	No
• Allen Bradley (DF485)	No
• Mitsubishi (FX)	No
• Mitsubishi (MP4)	No
• Telemecanique (ADJUST)	No
• Telemecanique (Uni-Telway)	No
• OMRON (LINK/Multilink)	No
• Modicon (Modbus)	No
• GE-Fanuc (SNP)	No
<b>Functions</b>	
• Key repeat	No
• TAB sequence	Yes
• Calculating functions	Yes

• Animate	No
• Menu tree editor	No
• Unit switchover	No
<b>Service tools/configuration aids</b>	
• Clean screen	Yes
• Touch calibration	Yes
• Backup/Restore manually	Yes
• Simulation	No
• Device switchover	Yes
• Delta transfer	No
• Monitoring function for battery and memory	No
• Trace (operation archive)	No
<b>Expandability/openness</b>	
• Open Platform Program	No
<b>Dimensions</b>	
Width of the housing front	212 mm
Height of housing front	156 mm
Overall depth	45 mm
<b>Weights</b>	
Weight (without packaging)	0.75 kg
<b>Other</b>	
free hotline	Yes
Warranty period	1 y
<b>last modified:</b>	04/28/2017