



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
Size	5.7"
Display type	STN, 4 blue levels
Color type	Blue levels
Resolution (pixels)	
Horizontal image resolution	320
Vertical image resolution	240
Resolution (WxH in pixel)	320 x 240
Backlighting	
MTBF backlighting (at 25 °C)	about 50000 hours
Control elements	
Control elements	Touch screen
Operating options	Touch
Connection for mouse/keyboard/barcode reader	- / - / -
Keyboard fonts	
Keys with LED	0
System keys	No

<b>Numeric/alphabetical input</b>	Yes / Yes
<b>hexadecimal keyboard</b>	Yes
<b>Multi-key operation</b>	No
<b>Touch operation</b>	
<b>Touch screen</b>	Analog, resistive
<b>Supply voltage</b>	
<b>Supply voltage</b>	24 V DC
<b>Input current</b>	
<b>Rated current</b>	0.24 A
<b>Inrush current A<sup>2</sup>s</b>	0.5 A <sup>2</sup> s
<b>Power</b>	
<b>Power</b>	6 W
<b>Processor</b>	
<b>Processor</b>	ARM
<b>Processor type</b>	ARM
<b>Memory</b>	
<b>Type</b>	Flash / RAM
<b>Usable memory for user data</b>	512 KB usable memory for user data
<b>Type of output</b>	
<b>Info LED</b>	No
<b>Power LED</b>	No
<b>Error LED</b>	No
<b>Time of day</b>	
<b>Clock</b>	
<b>Type</b>	Software clock, no battery backup
<b>Interfaces</b>	
<b>Interfaces</b>	1 x RS422, 1 x RS485 (max. 1.5 Mbit/s)
<b>Number of RS 485 interfaces</b>	1
<b>Transmission rate, max.</b>	1.5 Mbit/s
<b>USB port</b>	No
<b>PC card slot</b>	No
<b>CF card slot</b>	No
<b>Multi Media Card slot</b>	No
<b>Special interfaces</b>	No
<b>Industrial Ethernet</b>	
<b>Industrial Ethernet interface</b>	No
<b>Degree and class of protection</b>	
<b>Front</b>	IP65, NEMA 4x (when installed)

<b>Type of protection</b>	IP20
<b>IP (at the front)</b>	IP65
<b>NEMA</b>	NEMA 4X
<b>Rear</b>	IP20
<b>Standards, approvals, certificates</b>	
<b>Certifications</b>	CE, GL, ABS, BV, DNV, LRS, FM Class I Div. 2, UL, CSA, cULus, EX-Zone 2 (in Vorbereitung), EX-Zone 22 (in Vorbereitung), C-TICK, NEMA 4x
<b>FM Class I Div. 2</b>	Yes
<b>GL</b>	Yes
<b>ABS</b>	Yes
<b>BV</b>	Yes
<b>DNV</b>	Yes
<b>LRS</b>	Yes
<b>Class NK</b>	Yes
<b>PRS</b>	No
<b>Gost-R</b>	No
<b>Suitable for safety functions</b>	No
<b>Use in hazardous areas</b>	
<b>EX zone 2</b>	Yes
<b>EX zone 22</b>	Yes
<b>Ambient conditions</b>	
<b>Mounting position</b>	vertical
<b>maximum permissible angle of inclination without external ventilation</b>	+/- 35 °
<b>Storage/transport temperature</b>	
<b>Transport, storage</b>	-20 °C to +60 °C
<b>Relative humidity</b>	
<b>max. relative humidity</b>	90 %
<b>Operating systems</b>	
<b>Operating system</b>	LINUX
<b>Configuration</b>	
<b>Message indicator</b>	Yes
<b>With alarm logging system (incl. buffer and acknowledgment)</b>	Yes
<b>Configuration software</b>	
<b>STEP 7 Basic (TIA Portal)</b>	No
<b>STEP 7 Professional (TIA Portal)</b>	No
<b>WinCC flexible Compact</b>	Yes
<b>WinCC flexible Standard</b>	Yes

<b>WinCC flexible Advanced</b>	Yes
<b>WinCC Basic (TIA Portal)</b>	No
<b>WinCC Comfort (TIA Portal)</b>	Yes
<b>WinCC Advanced (TIA Portal)</b>	Yes
<b>WinCC Professional (TIA Portal)</b>	Yes
<b>Configuration tool</b>	WinCC flexible Compact Version 2004 SP1 or higher (to be ordered separately)
<b>2nd configuration kit</b>	WinCC flexible Compact
<b>Version</b>	Version 2004 SP 1
<b>Configuration tool</b>	WinCC flexible
<b>Type</b>	Compact
<b>Languages</b>	
<b>Online languages</b>	
<b>Number of online/runtime languages</b>	5
<b>Languages</b>	
<b>Languages per project</b>	32
<b>Functionality under WinCC flexible</b>	
<b>Libraries</b>	Yes
<b>Visual Basic Scripts</b>	
<b>Debugging in the simulator</b>	No
<b>Task planner</b>	Yes
<b>Help system</b>	Yes
<b>Number of characters per info text</b>	70
<b>Number of tooltips</b>	0
<b>With alarm logging system (incl. buffer and acknowledgment)</b>	
<b>Number of alarm classes</b>	32
<b>Number of messages</b>	1000
<b>Bit messages</b>	Yes
<b>Analog messages</b>	Yes
<b>Number of bit messages</b>	1000
<b>Number of analog messages</b>	20
<b>Telegram message procedure Alarm S</b>	No
<b>System messages HMI</b>	Yes
<b>System messages PLC</b>	Yes
<b>System messages, other (SIMATIC S7, Sinumerik, Simotion, ...)</b>	No
<b>Message length (in characters)</b>	80
<b>Lines</b>	1
<b>Number of process values per message</b>	8

<b>Acknowledgment groups</b>	Yes
<b>Message indicator</b>	Yes
<b>Acoustic feedback</b>	No
<b>First/last value</b>	Yes
<b>Recipes</b>	
<b>Number of recipes</b>	5
<b>Data records per recipe</b>	20
<b>Entries per data record</b>	20
<b>Recipe memory</b>	32 KB integrated Flash
<b>Variables</b>	
<b>Number of variables per device</b>	500
<b>Number of variables per screen</b>	30
<b>Limit values</b>	Yes
<b>Multiplexing</b>	Yes
<b>Structs</b>	No
<b>Images</b>	
<b>Number of configurable images</b>	250
<b>Permanent window/default</b>	Yes
<b>Start screen configurable</b>	Yes
<b>Image selection by PLC</b>	Yes
<b>Image number in the PLC</b>	Yes
<b>Image objects</b>	
<b>Text objects</b>	1,000 text elements
<b>Fields per image</b>	30
<b>Index of screen context</b>	No
<b>Return</b>	No
<b>Graphics object</b>	Bit maps, icons, icon (full-screen), vector graphics
<b>Icons</b>	1
<b>Icon (full screen)</b>	1
<b>Complex image objects</b>	
<b>Status/control</b>	Not possible
<b>dynamic objects</b>	Diagrams, bar graphs
<b>Number of bars per chart</b>	5
<b>Limit value lines</b>	Yes
<b>Attributes for dynamic objects</b>	
<b>Color change</b>	No
<b>X/Y movement</b>	No
<b>Hide</b>	Yes
<b>Angle of turn</b>	No

Lists	
Number of text lists per project	300
Number of graphics lists per project	100
Security	
Number of user groups	50
Number of user rights	32
Password export/import	Yes
Data carrier support	
PC card	No
CF card	No
Transfer (upload/download)	
Transfer of configuration	MPI/PROFIBUS DP, serial, automatic transfer recognition
Process coupling	
Connection to controller	S7-200, S7- 300/400, Win AC see section on "System interfaces"
<b>S7-200</b>	Yes
<b>PPI (point-to-point)</b>	Yes
<b>PPI network</b>	Yes
<b>MPI</b>	Yes
<b>PROFIBUS DP</b>	Yes
<b>Ethernet</b>	No
<b>S7-300/400</b>	Yes
<b>MPI</b>	Yes
<b>PROFIBUS DP</b>	Yes
<b>PROFINET</b>	No
<b>S5</b>	No
<b>serial</b>	No
<b>PROFIBUS DP</b>	No
<b>TI 505</b>	No
<b>Allen Bradley (DF1)</b>	No
<b>Allen Bradley (DF485)</b>	No
<b>Mitsubishi (FX)</b>	No
<b>Mitsubishi (MP4)</b>	No
<b>Telemecanique (ADJUST)</b>	No
<b>Telemecanique (Uni-Telway)</b>	No
<b>OMRON (LINK/Multilink)</b>	No
<b>Modicon (Modbus)</b>	No
<b>GE-Fanuc (SNP)</b>	No
Functions	
Key repeat	No

<b>TAB sequence</b>	Yes
<b>Calculating functions</b>	Yes
<b>Animate</b>	No
<b>Menu tree editor</b>	No
<b>Unit switchover</b>	No
<b>Service tools/configuration aids</b>	
<b>Clean screen</b>	Yes
<b>Touch calibration</b>	Yes
<b>Backup/restore</b>	Yes
<b>Simulation</b>	Yes
<b>Device switchover</b>	Yes
<b>Delta transfer</b>	No
<b>Monitoring function for battery and memory</b>	No
<b>Trace (operation archive)</b>	No
<b>Expandability/openness</b>	
<b>Open Platform Program</b>	No
<b>I/O / Options</b>	
<b>I/O devices</b>	
<b>Multi Media Card</b>	No
<b>Dimensions</b>	
<b>Front of enclosure (W x H)</b>	212 mm x 156 mm
<b>Weight</b>	
<b>Weight</b>	0.75 kg
<b>other</b>	
<b>free hotline</b>	Yes
<b>Warranty period</b>	1 a
Status	Mar 4, 2013