



SIMATIC TOUCH PANEL TP 177MICRO FOR SIMATIC S7-200 5.7" BLUE MODE STN DISPLAY CONFIGURABLE WINCC FLEXIBLE 2004 MICRO 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
Function keys, programmable	none
Keyboard fonts	
freely inscribable membrane keys	No
Number of function keys with LEDs	0

<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
<b>Usable memory for user data</b>	256 KB usable memory for user data
<b>Time of day</b>	
<b>Clock</b>	
<b>Type</b>	Software clock, no battery backup
<b>Interfaces</b>	
<b>Interfaces</b>	1 x RS485 (max. 187.5 Mbit/s)
<b>Number of RS 485 interfaces</b>	1
<b>Transmission rate, max.</b>	187.5 kbit/s
<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 2/22, 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>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>Configuration software</b>	
<b>Configuration tool</b>	WinCC flexible Micro Version 2004 SP1, HSP or higher (to be ordered separately)
<b>2nd configuration kit</b>	WinCC flexible Micro
<b>Version</b>	Version 2004 SP 1; HSP
<b>Configuration tool</b>	WinCC flexible
<b>Type</b>	Micro
<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 (TIA Portal)</b>	
<b>Libraries</b>	Yes
<b>Task planner</b>	Yes
<b>Help system</b>	Yes
<b>Number of characters per info text</b>	320
<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>	500

<b>Bit messages</b>	Yes
<b>Analog messages</b>	Yes
<b>Number of bit messages</b>	500
<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>Variables</b>	
<b>Number of variables per device</b>	250
<b>Number of variables per screen</b>	20
<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>	No
<b>Image number in the PLC</b>	No
<b>Image objects</b>	
<b>Text objects</b>	500 text elements
<b>Fields per image</b>	20
<b>Date/time fields</b>	0
<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
Number of curves per diagram	1
Number of bars per chart	5
Limit value lines	Yes
<b>alphanumeric fields</b>	0
alphanumeric fields per image	0
numerical fields	0
numerical fields per image	0
Password errors	0
Number of slides per image	0
Number of analog indicators per image	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
Button 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
<b>Attributes for dynamic objects</b>	
Color change	No
X/Y movement	No
Hide	Yes
Angle of turn	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	1
Number of users	1
Password export/import	Yes
<b>Transfer (upload/download)</b>	
Transfer of configuration	serial
<b>Process coupling</b>	
Connection to controller	for S7-200, see section on "System interfaces"
S7-200	Yes

PPI (point-to-point)	Yes
PPI network	Yes
MPI	Yes
PROFIBUS DP	No
S7-300/400	No
MPI	No
PROFIBUS DP	No
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	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

I/O / Options	
<b>I/O devices</b>	
<b>Multi Media Card</b>	No
Dimensions	
<b>Front of enclosure (W x H)</b>	212 mm x 156 mm
Weight	
<b>Weight (without packaging)</b>	0.75 kg
other	
<b>free hotline</b>	Yes
<b>Warranty period</b>	1 a
Status	Jul 10, 2013