

\*\*\* Spare part \*\*\* SIMATIC Touch Panel TP 177micro for SIMATIC S7-200 5.7" blue mode STN display configurable from WinCC flexible 2004 Micro HSP Contains open source software which is provided free of charge. See enclosed CD



Figure similar

General information	
Product type designation	TP 177micro
Display	
Design of display	STN
Screen diagonal	5.7 in
Color display	No
Number of colors	4; 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	
• Membrane keyboard	

— user-definable label membrane keys	No
• Function keys	No
• System keys	No
— Number of system keys	0
• Numeric keyboard	Yes
• alphanumeric keyboard	Yes
• hexadecimal keyboard	Yes
• Multi-key operation	No
<b>Touch operation</b>	
• Design as touch screen	Yes; analog, resistive
<b>Installation type/mounting</b>	
Mounting position	vertical
maximum permissible angle of inclination without external ventilation	35°
<b>Supply voltage</b>	
Type of supply voltage	DC
<b>Input current</b>	
Current consumption (rated value)	0.24 A
Starting current inrush I <sup>2</sup> t	0.5 A <sup>2</sup> ·s
<b>Power</b>	
Active power input, typ.	6 W
<b>Processor</b>	
Processor type	ARM
<b>Memory</b>	
Type of memory	Flash
Memory available for user data	256 kbyte
<b>Time of day</b>	
<b>Clock</b>	
• Type	Software clock, no battery backup
• retentive	No
• synchronizable	No
<b>Interfaces</b>	
Interfaces/bus type	1x RS 485 (max. 187.5 kbit/s)
Number of industrial Ethernet interfaces	0
Number of RS 485 interfaces	1
Number of RS 422 interfaces	0
Number of USB interfaces	0
<b>Protocols</b>	
Supports protocol for PROFINET IO	No

PROFIsafe	No
PROFIBUS	Yes
<b>Protocols (Ethernet)</b>	
• TCP/IP	No
<b>Further protocols</b>	
• EtherNet/IP	No
• MODBUS	No
• other bus systems	Yes
<b>Degree and class of protection</b>	
IP (at the front)	IP65
NEMA (front)	NEMA 4x (when installed)
IP (rear)	IP20
<b>Standards, approvals, certificates</b>	
Certifications	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
cULus	Yes
EAC (formerly Gost-R)	No
Suitable for safety functions	No
<b>Use in hazardous areas</b>	
• ATEX Zone 2	Yes
• ATEX Zone 22	Yes
• FM Class I Division 2	Yes
<b>Marine approval</b>	
• Germanischer Lloyd (GL)	Yes
• American Bureau of Shipping (ABS)	Yes
• Bureau Veritas (BV)	Yes
• Det Norske Veritas (DNV)	Yes
• Lloyds Register of Shipping (LRS)	Yes
• Nippon Kaiji Kyokai (Class NK)	Yes
• Polski Rejestr Statkow (PRS)	No
<b>Ambient conditions</b>	
<b>Ambient temperature during operation</b>	
• min.	0 °C
• max.	50 °C
<b>Ambient temperature during storage/transportation</b>	
• min.	-20 °C
• max.	60 °C
<b>Relative humidity</b>	
• Operation, max.	90 %
<b>Operating systems</b>	

pre-installed operating system	LINUX
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### Configuration

Message indicator	Yes
Alarm system (incl. buffer and acknowledgment)	Yes
Process value display (output)	Yes
Process value default (input) possible	Yes
Recipe management	No

### Configuration software

<ul style="list-style-type: none"> <li>• Configuration tool</li> </ul>	WinCC flexible Micro Version 2004 SP1, HSP or higher (to be ordered separately)
<ul style="list-style-type: none"> <li>• STEP 7 Basic (TIA Portal)</li> </ul>	No
<ul style="list-style-type: none"> <li>• STEP 7 Professional (TIA Portal)</li> </ul>	No
<ul style="list-style-type: none"> <li>• WinCC flexible Compact</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• WinCC flexible Standard</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• WinCC flexible Advanced</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• WinCC Basic (TIA Portal)</li> </ul>	No
<ul style="list-style-type: none"> <li>• WinCC Comfort (TIA Portal)</li> </ul>	No
<ul style="list-style-type: none"> <li>• WinCC Advanced (TIA Portal)</li> </ul>	No
<ul style="list-style-type: none"> <li>• WinCC Professional (TIA Portal)</li> </ul>	No

### Languages

#### Online languages

<ul style="list-style-type: none"> <li>• Number of online/runtime languages</li> </ul>	5
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#### Project languages

<ul style="list-style-type: none"> <li>• Languages per project</li> </ul>	32
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### Functionality under WinCC (TIA Portal)

Libraries	Yes
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Task planner	Yes
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Help system	Yes
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<ul style="list-style-type: none"> <li>• Number of characters per info text</li> </ul>	320
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<ul style="list-style-type: none"> <li>• Number of tooltips</li> </ul>	0
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#### Message system

<ul style="list-style-type: none"> <li>• Number of alarm classes</li> </ul>	32
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<ul style="list-style-type: none"> <li>• Number of messages</li> </ul>	500
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<ul style="list-style-type: none"> <li>• Bit messages</li> </ul>	Yes
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<ul style="list-style-type: none"> <li>— Number of bit messages</li> </ul>	500
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<ul style="list-style-type: none"> <li>• Analog messages</li> </ul>	Yes
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<ul style="list-style-type: none"> <li>— Number of analog messages</li> </ul>	20
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<ul style="list-style-type: none"> <li>• Telegram message procedure Alarm S</li> </ul>	No
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<ul style="list-style-type: none"> <li>• System messages HMI</li> </ul>	Yes
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<ul style="list-style-type: none"> <li>• System messages PLC</li> </ul>	Yes
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• 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>Variables</b>	
• Number of variables per device	250
• Number of variables per screen	20
• 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	No
• Image number in the PLC	No
<b>Image objects</b>	
• Text objects	500 text elements
• Number of I/O fields per image	20
• Number of date/time fields	0
• 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
• Sliders	
— Number of slides per image	0
• Pointer instruments	
— Number of analog indicators per image	0
• Limit value lines	Yes

• Number of alphanumerical 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
<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	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 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>Peripherals/Options</b>	
Peripherals	
• SIMATIC HMI MM memory card: Multi Media Card	No
Additional software components loadable	Yes
<b>Dimensions</b>	
Width of the housing front	212 mm
Height of housing front	156 mm
Mounting cutout, width	198 mm
Mounting cutout, height	142 mm

Overall depth	45 mm
<b>Weights</b>	
Weight (without packaging)	0.75 kg
<b>Other</b>	
free hotline	Yes
<b>last modified:</b>	09/18/2019