

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



Figure similar

Display	
Design of display	STN
Screen diagonal	5.7 in
Number of colors	4
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)	50 000 h
Control elements	
Control elements	Touch screen
Keyboard	
• Membrane keyboard	No
— freely inscribable membrane keys	No
• Function keys	none
— Number of function keys with LEDs	0
• Keys with LED	No; 0
• System keys	No
• Numeric/alphabetical input	Yes / Yes
— hexadecimal keyboard	Yes
• Multi-key operation	No
Touch operation	

- Design as touch screen

Yes; analog, resistive

### Installation type/mounting

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

### Supply voltage

Type of supply voltage	DC
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### Input current

Current consumption (rated value)	0.24 A
Inrush current A <sup>2</sup> s	0.5 A <sup>2</sup> s

### Power

Power consumption, typ.	6 W
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### Processor

Processor type	ARM
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### Memory

Type of memory	Flash
Usable memory for user data	256 kbyte

### Time of day

Clock	
<ul style="list-style-type: none"> <li>• Type</li> </ul>	Software clock, no battery backup
<ul style="list-style-type: none"> <li>• Hardware clock (real-time clock)</li> </ul>	No
<ul style="list-style-type: none"> <li>• Software clock</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• Battery-backed</li> </ul>	No
<ul style="list-style-type: none"> <li>• Synchronizable</li> </ul>	No

### Interfaces

Interface/bus type	1 x RS485 (max. 187.5 Mbit/s)
Number of RS 485 interfaces	1
<ul style="list-style-type: none"> <li>• Transmission rate, max.</li> </ul>	187.5 kbit/s

### Degree and class of protection

Front	IP65, NEMA 4x (when installed)
IP (at the front)	IP65
IP (rear)	IP20

### Standards, approvals, certificates

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

Marine approval	
• 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
Use in hazardous areas	
• EX zone 2	Yes
• EX zone 22	Yes
• FM Class I Division 2	Yes
Ambient conditions	
Ambient temperature in operation	
• Min.	0 °C
• max.	50 °C
Storage/transport temperature	
• Min.	-20 °C
• max.	60 °C
Relative humidity	
• Operation, max.	90 %
Operating systems	
Operating system	LINUX
Configuration	
Message indicator	Yes
Alarm logging system (incl. buffer and acknowledgment)	Yes
Configuration software	
• STEP 7 Basic (TIA Portal)	No
• STEP 7 Professional (TIA Portal)	No
• WinCC flexible Compact	Yes
• WinCC flexible Standard	Yes
• WinCC flexible Advanced	Yes
• WinCC Basic (TIA Portal)	No
• WinCC Comfort (TIA Portal)	No
• WinCC Advanced (TIA Portal)	No
• WinCC Professional (TIA Portal)	No
• Configuration tool	WinCC flexible Micro Version 2004 SP1, HSP or higher (to be ordered separately)
• 2nd configuration kit	WinCC flexible Micro
— Version	Version 2004 SP 1; HSP

— Configuration tool

WinCC flexible

— Type

AAA

## Languages

### Online languages

- Number of online/runtime languages 5

### Languages

- Languages per project 32

## Functionality under WinCC (TIA Portal)

Libraries Yes

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 500
- Bit messages Yes
  - Number of bit messages 500
- Analog messages Yes
  - Number of analog messages 20
- Telegram message procedure Alarm S No
- System messages HMI Yes
- System messages PLC Yes
- System messages, other (SIMATIC S7, Sinumerik, Simotion, etc.) No
- Message length (in characters) 80
- Lines 1
- Number of process values per message 8
- Acknowledgment groups
  - Number of acknowledgement groups Yes
- Message indicator Yes
- Acoustic feedback No
- First/last value Yes

### Variables

- Number of variables per device 250
- Number of variables per screen 20
- Limit values Yes
- Multiplexing Yes
- Structs No

### Images

- 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
• Number of bars per chart	5
• Limit value lines	Yes
• alphanumeric fields	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

Service tools/configuration aids	
• 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
Expandability/openness	
• Open Platform Program	No
I/O / Options	
I/O devices	
• MultiMediaCard	No
Dimensions	
Width of the housing front	212 mm
Height of housing front	156 mm
Mounting cutout, width	198 mm
Mounting cutout, height	142 mm
Device depth	45 mm
Weights	
Weight (without packaging)	0.75 kg
other	
free hotline	Yes
Warranty period	1 y
<b>last modified:</b>	11.02.2015