

*** SPARE PART*** 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
Number of colors	4
Color type	Blue levels
Resolution (pixels)	
• Horizontal image resolution	320 Pixel
• Vertical image resolution	240 Pixel
• Resolution (WxH in pixel)	320 x 240
Backlighting	
• MTBF backlighting (at 25 °C)	50 000 h
Control elements	
Control elements	Touch screen
Keyboard fonts	
• Membrane keyboard	
— user-definable label membrane keys	
• Function keys	
— Number of function keys with LEDs	
• Numeric/alphabetical input	
— hexadecimal keyboard	
• Multi-key operation	
Touch operation	
• Design as touch screen	Yes; analog, resistive
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 I²t	0.5 A²·s
Power	
Power consumption, typ.	6 W

Processor	
Processor type	ARM
Memory	
Type of memory	Flash
Memory available for user data	256 kbyte
Time of day	
Clock	
Type	Software clock, no battery backup
retentive	No
synchronizable	No
Interfaces	
Interfaces/bus type	1 x RS485 (max. 187.5 Mbit/s)
Number of RS 485 interfaces	1
Transmission rate, max.	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 2/22, C-TICK, NEMA 4x
cULus	Yes
EAC (formerly Gost-R)	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 during storage/transportation	
min.	-20 °C
max.	60 °C
Relative humidity	

• Operation, max.	90 %
Operating systems	
Operating system	LINUX
Configuration	
Configuration software	
• Configuration tool	WinCC flexible Micro Version 2004 SP1, HSP 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
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
• Structures	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
Image objects	
• 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
Complex image objects	
• 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 fields	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
• 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
Attributes for dynamic objects	
• Color change	No
• X/Y movement	No
• Hide	Yes
• Angle of rotation	No
Lists	
• Number of text lists per project	150
• Number of graphics lists per project	100
Security	
• Number of user groups	1
• Number of users	1
• Password export/import	Yes
Transfer (upload/download)	
• Transfer of configuration	serial
Process coupling	
• 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
Functions	

• 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 manually	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
Peripherals/Options	
Peripherals	
• SIMATIC HMI MM memory card: Multi Media Card	No
Dimensions	
Width of the housing front	212 mm
Height of housing front	156 mm
Overall depth	45 mm
Weights	
Weight (without packaging)	0.75 kg
Other	
free hotline	Yes
Warranty period	1 y
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