

SIMATIC TP177B 6" PN/DP STN 265 COLOR-DISPLAY MPI-
 /PROFIBUS-DP - PROTOCOL RS485-/RS422-/USB - INTERFACE
 ETHERNET10/100 INTERFACE PRINTER - INTERFACE SLOT
 FOR MM-CARD CONFIGURABLE WITH WINCC FLEXIBLE 2005
 ***** AS OF 2015-01-01 THE PRODUCT IS
 BLOCKED FOR DELIVERY AND IS NO LONGER AVAILABLE AS A
 NEW PART. INFORMATION ABOUT SUCCESSOR SEE SIMATIC
 UPDATE ID: 62977695 FOR FURTHER QUESTIONS PLEASE
 APPROACH YOUR SIEMENS CONTACT PERSON.



Figure similar

General information	
Customer-specific configuration	Yes
Display	
Design of display	STN
Screen diagonal	5.7 in
Number of colors	256
Color type	Colors
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
Operating options	Touch
Keyboard	
• Membrane keyboard	No
• System keys	Yes
• Numeric/alphabetical input	Yes / Yes
— hexadecimal keyboard	Yes
• Multi-key operation	No
Touch operation	
• Design as touch screen	Yes

Installation type/mounting	
Mounting position	vertical
maximum permissible angle of inclination without external ventilation	35°
Supply voltage	
Type of supply voltage	DC
Input current	
Current consumption (rated value)	0.24 A
Inrush current A ² s	0.5 A ² s
Processor	
Processor type	ARM, 200 MHz
Memory	
Usable memory for user data	2 048 kbyte
Time of day	
Clock	
<ul style="list-style-type: none"> • Type • Hardware clock (real-time clock) • Software clock • Battery-backed • Synchronizable 	<ul style="list-style-type: none"> Hardware clock, synchronizable, no battery backup No Yes No Yes
Interfaces	
Number of RS 485 interfaces	1
<ul style="list-style-type: none"> • Transmission rate, max. 	12 Mbit/s
USB port	1 x USB
PC card slot	No
CF card slot	No
Multimedia card/SD card slot	combined, from E-status 016 in connection with WinCC flexible 2008 SP1, MMC max. 128 MB / SD max. 512 MB
Special interfaces	No
Industrial Ethernet	
<ul style="list-style-type: none"> • Industrial Ethernet interface • Industrial Ethernet status LED 	<ul style="list-style-type: none"> 1 x Ethernet (RJ45) 1
Protocols (terminal link)	
<ul style="list-style-type: none"> • Sm@rtService 	Yes
Degree and class of protection	
Front	IP65, NEMA 4x, NEMA 12 (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, EX Zone 22, C-TICK, NEMA 4x, NEMA 12
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
• 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	
• Operating temperature range, min.	0 °C
• Operating temperature range, max.	50 °C
Storage/transport temperature	
• Min.	-20 °C
• max.	60 °C
Relative humidity	
• Operation, max.	90 %
Operating systems	
Operating system	Windows CE
Configuration	
Message indicator	Yes
Alarm logging system (incl. buffer and acknowledgment)	Yes
Process value display (output)	Yes
Process value default (input) possible	Yes
Recipe administration	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)	Yes
• WinCC Advanced (TIA Portal)	Yes
• WinCC Professional (TIA Portal)	Yes
• Configuration tool	WinCC flexible Compact Version 2005 or higher (to be ordered separately)
• 2nd configuration kit	WinCC flexible Compact
— Version	Version 2005
— Configuration tool	WinCC flexible
— Type	Compact

Languages

Online languages

• Number of online/runtime languages	5
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Languages

• Languages per project	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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• Number of characters per info text	70
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Message system

• Number of alarm classes	32
• Number of messages	2 000
• Bit messages	Yes
— Number of bit messages	2 000
• Analog messages	Yes
— Number of analog messages	50
• 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	99
• Message indicator	Yes
• Acoustic feedback	No
• First/last value	Yes

Recipe administration

• Number of recipes	100
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• Data records per recipe	200
• Entries per data record	200
• Recipe memory	32 KB integrated Flash, expandable
Variables	
• Number of variables per device	1 000
• Number of variables per screen	50
• Number of variables	1 000
• Initial values	1 000
• Limit values	Yes
• Multiplexing	Yes
• Structs	No
• Type Date & Time	1 000
Images	
• Number of configurable images	500
• Permanent window/default	Yes
• Start screen configurable	Yes
• Image selection by PLC	Yes
• Image number in the PLC	Yes
Image objects	
• Text objects	2,500 text elements
• Number of I/O fields per image	50
• Number of date/time fields	30
• Index of screen context	No
• Return	Yes
• Graphics object	Bit maps, icons, icon (full-screen), vector graphics
— Icons	500
— Icon (full screen)	50
Complex image objects	
• Status/control	With SIMATIC S7
• dynamic objects	Diagrams, bar graphs, sliders, analog display, invisible buttons
— Number of objects per project	500
— Number per image	5
• Methods	Trend
• Limit value lines	Yes
• Number of bars per chart	5
• Limit value lines	Yes
• alphanumeric fields	1 000
• alphanumeric fields per image	100
• numerical fields	1 000
• numerical fields per image	100
• Password errors	1 000

• Number of slides per image	0
• Number of analog indicators per image	0
• Number of visible switches per project	1 000
• visible switches per image	100
• hidden switches per image	100
• Number of status switches per project	1 000
• Button status switches per image	100
• Number of selector switches per project	1 000
• Selector switches per image	100
• Number of decade switches per project	0
• Decade switches per image	0
• Number of signal lamps per project	1 000
• Signal lamps per image	100
Attributes for dynamic objects	
• Color change	Yes
• X/Y movement	Yes
• Hide	Yes
• Angle of turn	No
Lists	
• Number of text lists per project	300
• Number of text lists per image	10
• Number of entries per text list	30
• Number of graphics lists per project	100
• Number of graphic lists per image	10
• Number of entries per graphics list	30
Security	
• Number of user groups	50
• Number of user rights	32
• Password export/import	Yes
Data carrier support	
• PC card	No
• CF card	No
Logging through printer	
• Recording/Printing	Alarms, report (shift report), color print, hardcopy
Transfer (upload/download)	
• Transfer of configuration	MPI/PROFIBUS DP, serial, USB, Ethernet, by means of external storage medium, automatic transfer recognition
Process coupling	
• Connection to controller	S5, S7-200, S7-300/400, Win AC, PC (TCP/IP), SINUMERIK, SIMOTION, Allen Bradley (DF1), Mitsubishi (FX), Telemecanique (ADJUST), Modicon (Modbus), further non-Siemens drivers, see chapter "System interfaces"

- S7-1200 Yes
- S7-1500 No
- S7-200 Yes
 - PPI (point-to-point) Yes
 - PPI network No
 - MPI Yes
 - PROFIBUS DP Yes
 - Ethernet Yes
- S7-300/400 Yes
 - MPI Yes
 - PROFIBUS DP Yes
 - PROFINET Yes
- S5 Yes; only PROFIBUS DP
 - serial No
 - PROFIBUS DP Yes
- TI 505 No
- Allen Bradley (DF1) Yes
- Allen Bradley (DF485) Yes
- Mitsubishi (FX) Yes
- Telemecanique (ADJUST) No
- Telemecanique (Uni-Telway) Yes; Only in combination with WinCC flexible
- OMRON (LINK/Multilink) Yes
- Modicon (Modbus) Yes

Functions

- Key repeat No
- TAB sequence Yes
- Calculating functions Yes
- Animate Yes
- Menu tree editor Yes
- Unit switchover No

Service tools/configuration aids

- Clean screen Yes
- Touch calibration Yes
- Backup/restore Yes
- Simulation Yes
- Device switchover Yes
- Delta transfer Yes
- Monitoring function for battery and memory No
- Trace (operation archive) No

Expandability/openness

- Open Platform Program Yes

I/O / Options

I/O devices	Printer
• MultiMediaCard	Yes
Additional software components loadable	Yes

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	44 mm

Weights

Weight (without packaging)	0.8 kg
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other

free hotline	Yes
Warranty period	1 y
last modified:	10.02.2015