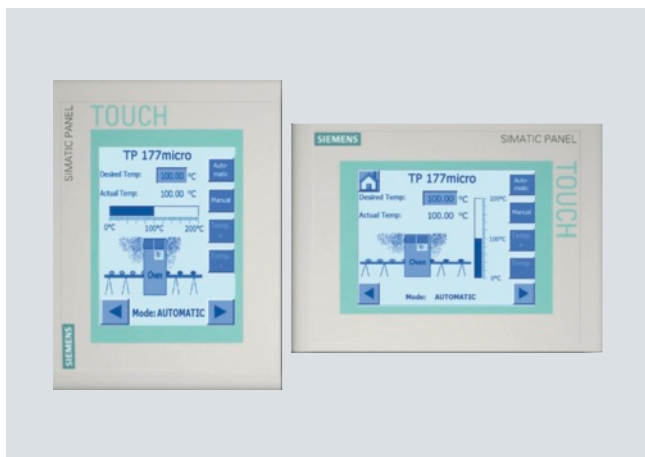


SIMATIC S7-200

Operator control and monitoring

SIMATIC TP 177micro

Overview



- Touch Panel for operator control and monitoring of small machines and plants
- Low-cost entry-level product in the category of touch panels with graphics capability and all the basic functions required for simple tasks
- Pixel graphics 5.7" STN touch screen (analog/resistive), Bluemode (4 levels)
- Specially for SIMATIC S7-200: Communication to the PLC through the integrated interface over a point-to-point link
- Connection to the PLC over MPI or PROFIBUS DP cable
- SIMATIC TP 177micro is the innovative successor to the Touch Panels SIMATIC TP 070/TP 170micro

Technical specifications

6AV6 640-0CA11-0AX1	
Product type designation	TP 177micro
Supply voltage	
Supply voltage	24 V DC
Permissible range	+20.4 V to +28.8 V DC
Rated current	0.24 A
Memory	
Type	Flash
Usable memory for user data	256 KB usable memory for user data
Time	
Clock	
• Type	Software clock, not battery backed
Configuration	
Configuration tool	WinCC flexible Micro Version 2004 SP1, HSP or higher (to be ordered separately)
Display	
Display type	STN, 4 Blue mode, 4 levels
Size	5.7"
Resolution (WxH in pixel)	320 x 240

6AV6 640-0CA11-0AX1	
Backlighting	
• MTBF backlighting (at 25 °C)	about 50,000 hours
Operating mode	
Control elements	Touch screen
Function keys, programmable	None
Touch operation	
• Touch screen	analog, resistive
• System keys	0
• Numeric/alphabetical input	Yes / Yes
Ambient conditions	
Mounting position	vertical
maximum permissible angle of inclination without external ventilation	+/- 35 °
max. relative humidity	90 %
Temperature	
• Operation (vertical installation)	0 °C to +50 °C
• Operation (max. tilt angle)	0 °C to +40 °C
• Transport, storage	-20 °C to +60 °C
Degree of protection	
Front	IP65, NEMA 4x, (when installed)
Rear	IP20
Certifications & standards	
Certifications	CE, GL, ABS, BV, DNV, LRS, FM Class I Div. 2, UL, CSA, cULus, EX-Zone 2 (available soon), EX-Zone 22 (available soon), C-TICK, NEMA 4x
Interfaces	
Interfaces	1 x RS485 (max. 187.5 Mbit/s)
Operating systems	
Operating system	LINUX
Processor	
Processor	ARM
Functionality under WinCC flexible	
Task planner	Yes
Help system	Yes
Status/control	Not possible
With alarm logging system (incl. buffer and acknowledgment)	
• Number of messages	500
• Bit messages	Yes
• Analog messages	Yes
• Message buffer	Ring buffer (n x 128 entries)
Number of process images	
• Process images	250
• Variables	250
• Limit values	Yes
• Multiplexing	Yes
Image elements	
• Text objects	500 text elements
• Graphics object	Bit maps, icons, icon (full-screen), vector graphics
• dynamic objects	Diagrams, bar graphs

SIMATIC S7-200

Operator control and monitoring

SIMATIC TP 177micro

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Technical specifications (continued)

6AV6 640-0CA11-0AX1	
Lists	
• Text lists	150
• Graphics list	100
• Libraries	Yes
Security	
• Number of user groups	1
• Passwords exportable	Yes
• Number of users	1
Data carrier support	
• Multi Media Card	No
Recording	
• Printer driver	-
Fonts	
• Keyboard fonts	US American (English)
Languages	
• Online languages	5
• Configuration languages	D, GB, F, I, E, CHN "traditional", CHN "simplified", DK, FIN, GR, J, KP / ROK, NL, N, PL, P, RUS, S, CZ / SK, TR, H
• Character sets	WinCC flexible Standard, symbol languages
Transfer (upload/download)	
• Transfer of configuration	serial
Process coupling	
• Connection to controller	for S7-200, see section on "System interfaces"
Expandability/openness	
• Open Platform Program	No
Dimensions	
Front of enclosure (W x H)	212 mm x 156 mm
Mounting cutout/device depth (W x H)	198 mm x 142 mm / 45 mm device depth
Dimensions and weight	
Weight	
• Weight	0.75 kg

Ordering data**Order No.**

SIMATIC TP 177micro	I	6AV6 640-0CA11-0AX1
Touch Panel for connection to the SIMATIC S7-200, 5.7" STN display		
TP 177micro starter package	C	6AV6 650-0DA01-0AA0
Consisting of:		
<ul style="list-style-type: none"> • TP 177micro Touch Panel • SIMATIC WinCC flexible Micro engineering software • SIMATIC HMI Manual Collection (DVD), 5 languages (English, French, German, Italian, Spanish), comprising: all currently available user manuals, manuals and communication manuals for SIMATIC HMI • MPI cable (5m) (for test purposes) 		
Configuration		
with SIMATIC WinCC flexible		
Documentation (to be ordered separately)		
OP 73micro, TP 177micro operating instructions		6AV6 691-1DF01-0AA0 6AV6 691-1DF01-0AB0 6AV6 691-1DF01-0AC0 6AV6 691-1DF01-0AD0 6AV6 691-1DF01-0AE0
WinCC flexible Micro user manual		6AV6 691-1AA01-3AA0 6AV6 691-1AA01-3AB0 6AV6 691-1AA01-3AC0 6AV6 691-1AA01-3AD0 6AV6 691-1AA01-3AE0
SIMATIC HMI manual collection	J	6AV6 691-1SA01-0AX0
Electronic documentation, on DVD		
5 languages (English, French, German, Italian, Spanish); contains: all currently available user manuals, manuals and communication manuals for SIMATIC HMI		
Accessories		
Accessories for supplementary ordering		see catalog ST 80/ST PC

C: Subject to export regulations AL: N and ECCN: 5D002ENCU

I: Subject to export regulations AL: N and ECCN: EAR99H

J: Subject to export regulations AL: N and ECCN: EAR99S