

OFFICIAL MANUFACTURER DOCUMENT PACKAGE

Manufacturer's Manual

6AV6642-0DC01-1AX1

Siemens official documentation for the exact article number.

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Selected official Siemens pages follow this cover.



SIMATIC OP177B 6" DP BLUE MODE STN DISPLAY
TOUCH AND KEYS MPI-/PROFIBUS-DP PROTOCOL
RS485-/RS422-/USB- INTERFACE PRINTER INTERFACE
SLOT FOR MM-CARD CONFIGURABLE WITH WINCC
FLEXIBLE 2005

General information	
Product function	
Customer-specific configuration	Yes
Display	
Design of display	STN
Screen diagonal	5.7 in
Size	5.7" (120 mm x 90 mm)
Display type	STN, 4 blue levels
Number of greyscales	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)	about 50000 hours
Control elements	
Control elements	Membrane keyboard
Operating options	Keys and Touch

Function keys, programmable	32 function keys, 26 with LEDs
Connection for mouse/keyboard/barcode reader	USB / USB / USB
Keyboard fonts	
freely inscribable membrane keys	Yes
Number of function keys with LEDs	26
Multi-key operation	Yes
Number of configurable system keys	32
System keys	Yes
Numeric/alphabetical input	Yes / Yes
hexadecimal keyboard	Yes
Multi-key operation	Yes
Touch operation	
Touch screen	Analog, resistive
Supply voltage	
Supply voltage	24 V DC
Input current	
Rated current	0.24 A
Inrush current A ² s	0.5 A ² s
Processor	
Processor	ARM, 200 MHz
Processor type	ARM
Memory	
Type	Flash / RAM
Usable memory for user data	2048 KB usable memory for user data
Time of day	
Clock	
Type	Hardware clock, synchronizable, no battery backup
Interfaces	
Interfaces	RS232 optional, 1 x RS422, 1 x RS485 (max. 12 Mbit/s)
Number of RS 485 interfaces	1
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, as of E version 016 in conj. with WinCC flex. 2008 SP1
Special interfaces	No
Industrial Ethernet	
Industrial Ethernet interface	No

Industrial Ethernet status LED	0
Protocols	
Protocols (terminal link)	
Sm@rtServer	Yes
Degree and class of protection	
Front	IP65, NEMA 4x, NEMA 12 (when installed)
Type of protection	IP20
IP (at the front)	IP65
NEMA	NEMA 4x, NEMA 12
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
FM Class I Div. 2	Yes
GL	Yes
ABS	Yes
BV	Yes
DNV	Yes
LRS	Yes
PRS	No
Gost-R	No
Suitable for safety functions	No
Use in hazardous areas	
EX zone 2	Yes
EX zone 22	Yes
Ambient conditions	
Mounting position	vertical
maximum permissible angle of inclination without external ventilation	+/- 35 °
Storage/transport temperature	
Transport, storage	-20 °C to +60 °C
Relative humidity	
max. relative humidity	90 %
Operating systems	
Operating system	Windows CE
Configuration	
Message indicator	Yes
With 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
Languages	
Languages per project	32
Functionality under WinCC flexible	
Libraries	Yes
Task planner	Yes
Help system	Yes
Number of characters per info text	70
With alarm logging system (incl. buffer and acknowledgment)	
Number of alarm classes	32
Number of messages	2000
Bit messages	Yes
Analog messages	Yes
Number of bit messages	2000
Number of analog messages	50
Telegram message procedure Alarm S	No
System messages HMI	Yes
System messages PLC	Yes