



6AV6647-0AG11-3AX0 SIMATIC HMI TP1500 BASIC COLOR PN

Technical / CAx data

 Technical Data CAx data

**SIMATIC HMI TP1500 BASIC COLOR PN, 15,0" TFT DISPLAY, 256 COLORS
ETHERNET INTERFACE CONFIGURATION FROM WINCC FLEXIBLE 2008
COMPACT OR WINCC BASIC V10.5 INCLUDED IN STEP7 BASIC V10.5,
CONTAINS OPEN SOURCE SW WHICH IS PROVIDED FREE OF CHARGE FOR
DETAILS SEE CD**

Supply voltage

Supply voltage	24 V DC
permissible range	+19.2 V to +28.8 V DC
Type of voltage	DC
I ² t-level / maximum	0.2 A ² ·s
Rated current	0.8 A
Power	20 W

Memory

Type	Flash / RAM
Usable memory for user data	1024 KB usable memory for user data

Time of day

Clock	
Type	Softwareuhr, ungepuffert

Protocols

TCP/IP	Yes
PROFINET	Yes
PROFIBUS	No
MPI	No
MODBUS	No
other bus systems	No
Protocols (terminal link)	
Sm@rtAccess	No

Configuration

Configuration tool	WinCC flexible Compact Version 2008 or higher (to be ordered separately)
2nd configuration kit	WinCC flexible Compact
Version	Version 2008
Configuration tool	WinCC flexible
Type	Compact

Display

Display type	TFT, 256 Farben
Design of display	TFT
Size	15" (304.1 mm x 228.1 mm)
Screen diagonal	15 in
Resolution (WxH in pixel)	1024 x 768
Horizontal image resolution	1024
Vertical image resolution	768
Color type	Colors

Backlighting	
MTBF backlighting (at 25 °C)	about 50,000 hours
Operating mode	
Control elements	Touch screen
Operating options	Touch
Function keys, programmable	None
Connection for mouse/keyboard/barcode reader	- / - / -
external mouse	-
Keyboard	
external keyboard	-
Touch operation	
Touch screen	analog, resistive
Design as touch screen	Yes
Number of function keys with LEDs	0
Keys with LED	No
Numeric/alphabetical input	Yes (on-screen keyboard) / Yes (on-screen keyboard)
hexadecimal keyboard	Yes; Onscreen keyboard
Multi-key operation	No
Touch screen (analog/resistive)	Yes
Barcode reader	
Connection for barcode reader	-
Ambient conditions	
Mounting position	vertical
maximum permissible angle of inclination without external ventilation	+/- 35 °
max. relative humidity (in %)	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 4, NEMA 4x, NEMA 12 (when installed)
IP (at the front)	IP65
NEMA	NEMA 4, NEMA 4x, NEMA 12
Rear	IP20
IP (rear)	IP20
Certifications & standards	
Certifications	CE, UL, cULus, NEMA 4, NEMA 4x, NEMA 12
I/O / Options	
I/O devices	None
Type of output	
Info LED	No
Power LED	No
Error LED	No
LED colors	None
Acoustics	Sound signal
Interfaces	
Interfaces	1 x Ethernet (RJ45)
Number of parallel interfaces	0
Number of interfaces/according to RS 485	0

PC card slot	No
CF card slot	No
Multi Media Card slot	No
USB port	No
Industrial Ethernet interface	1 x Ethernet (RJ45)
Industrial Ethernet status LED	2
Special interfaces	No
Product function	
Message indicator	Yes
Message system	Yes
Process value display (output)	Yes
Process value default (input) possible	Yes
Recipe administration	Yes
Customer-specific configuration	Yes
Additional software components loadable	No
other	
free hotline	Yes
Warranty period	1 a
Processor	
Processor	RISC 32-bit, 200 MHz
Processor type	RISC 32-bit
other	No
Functionality under WinCC flexible	
Applications/options	None
Number of Visual Basic Scripts	Not possible
Debugging in the simulator	No
Task planner	Yes
Help system	Yes
Number of info. texts	320
Status/control	Not possible
With alarm logging system (incl. buffer and acknowledgment)	
Number of messages	200
Bit messages	Yes
Analog messages	Yes
Number of bit messages	200
Number of analog messages	15
Number of alarm classes	32
Telegram message procedure Alarm S	No
System messages HMI	Yes
System messages PLC	No
System messages, other (Sinumerik, Simotion,...)	No
Message length (in characters)	80
Lines	1
Number of process values per message	8
Acknowledgment groups	Yes
Message indicator	Yes
Acoustic feedback	Yes
First/last value	Yes
Message buffer	Ring buffer (n x 256 entries), non-retentive
Recipes	
Recipes	5

Data records per recipe	20
Entries per data record	20
Recipe memory	40 KB integrated Flash
Number of process images	
Process images	50
Variables	256
Limit values	Yes
Multiplexing	Yes
Structs	No
Image elements	
Text objects	500 text elements
Fields per image	30
Variables per image	30
Permanent window/default	Yes; No permanent window can be configured
Image selection via PLC	Yes
Index of screen context	No
Start screen configurable	Yes
Image number in the PLC	Yes
Return	N
Graphics object	Bit maps, icons, icon (full-screen), vector graphics
Icons	1
Icon (full screen)	1
dynamic objects	Diagrams
Number of curves per diagram	4
Methods	Trend
Number of bars per chart	5
Direction	vertical / horizontal
Limit value lines	Yes
Attributes for dynamic objects	
Color change	Yes
X/Y movement	Yes
Hide	Yes
Angle of turn	No
Lists	
Text lists	150
Graphics list	100
Libraries	Yes
Security	
Number of user groups	50
Passwords exportable	No
Number of user rights	32
Data carrier support	
PC card	No
CF card	No
Multi Media Card	No
SD card	No
USB Memory Drive	No
Diskette drive	No
Hard disk	No
CD-ROM	No
Recording	
Recording/Printing	PROFINET

Fonts

Keyboard fonts US American (English)

Languages

Online languages 5

Languages per project 32

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 Tahoma, WinCC flexible Standard, symbol languages

Transfer (upload/download)

Transfer of configuration Ethernet, automatic transfer recognition

Process coupling

Connection to controller S7-200, S7-300/400, see chapter "System interfaces"

S5 No

serial No

PROFIBUS DP No

S7-200 Yes; Via CP

PPI (point-to-point) No

PPI network No

MPI No

PROFIBUS DP No

Ethernet Yes

S7-300/400 Yes

MPI No

PROFIBUS DP No

PROFINET Yes

TI 505 No

Point-to-point No

Network No

Allen Bradley (DF1) No

Point-to-point No

Network No

Allen Bradley (DF485) No

Point-to-point No

Network No

Mitsubishi (FX) No

Point-to-point No

Network No

Mitsubishi (MP4) No

Point-to-point No

Network No

Telemecanique (ADJUST) No

Point-to-point No

Network No

Telemecanique (Uni-Telway) No

Point-to-point No

Network No

OMRON (LINK/Multilink) No

Point-to-point No

Network No

Modicon (Modbus) No

Point-to-point No

Network No

GE-Fanuc (SNP)	No
Point-to-point	No
Network	No
Functions	
Key repeat	No
TAB sequence	Yes
Calculating functions	Yes
Animate	Yes
Menu tree editor	No
Unit switchover	No
Service tools/configuration aids	
Clean screen	Yes
Touch calibration	Yes
Backup/restore	Yes
Simulation	Yes
Device switchover	Yes
Delta transfer	No
Monitoring function for battery and memory	No
Trace (operation archive)	No
Expandability/openness	
Open Platform Program	No
Mechanics	
Type of housing (front)	Plastic
Mounting technology	Clamp terminals
Dimensions	
Front of enclosure (W x H)	400 mm x 310 mm
Mounting cutout/device depth (W x H / D)	367 mm x 289 mm / 60 mm device depth
Dimensions and weight	
Weight	
Weight	4.2 kg
Status	Jun 30, 2010