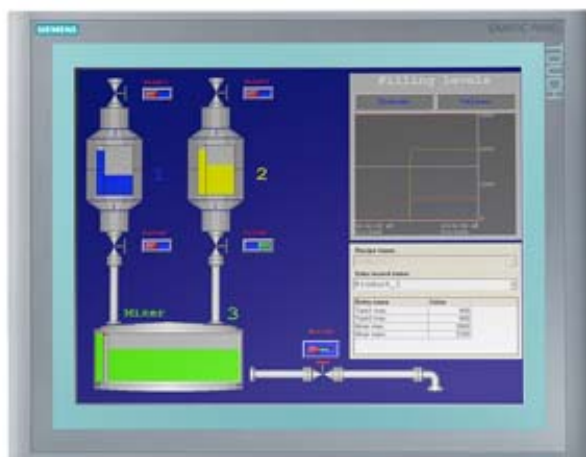


SIEMENS

Product data sheet

6AV6647-0AG11-3AX0


SIMATIC HMI TP1500 BASIC COLOR PN,
BASIC PANEL, TOUCH OPERATION,
15" TFT DISPLAY, 256 COLORS,
PROFINET INTERFACE,
CONFIGURATION FROM WINCC FLEXIBLE 2008
SP2 COMPACT/ WINCC BASIC V10.5/ STEP7 BASIC
V10.5,
CONTAINS OPEN SOURCE SW WHICH IS
PROVIDED FREE OF CHARGE FOR DETAILS SEE
CD

Display	
Design of display	TFT
Screen diagonal	15 in
Display width	304.1 mm
Display height	228.1 mm
Number of colors	256
Resolution (pixels)	
Horizontal image resolution	1024
Vertical image resolution	768
Backlighting	
MTBF backlighting (at 25 °C)	50000 h
Dimmable backlight	No
Control elements	
Keyboard fonts	
Number of function keys	0

Keys with LED	No
System keys	No
Numeric/alphabetical input	
Numeric keyboard	Yes ; Onscreen keyboard
Alphanumeric keyboard	Yes ; Onscreen keyboard
Touch operation	
Design as touch screen	Yes
Supply voltage	
Type of supply voltage	DC
Rated voltage/DC	24 V
permissible range, lower limit (DC)	19.2 V
permissible range, upper limit (DC)	28.8 V
Input current	
Current consumption (rated value)	0.8 A
Inrush current A ² s	0.2 A ² ·s
Power	
Power consumption, typ.	20 W
Processor	
Processor type	
X86	No
ARM	Yes ; RISC 32-bit
Memory	
Flash	Yes
RAM	Yes
Usable memory for user data	1024 kbyte
Type of output	
Acoustics	
Buzzer	Yes
Speaker	No
Time of day	
Clock	
Hardware clock (real-time clock)	No
Software clock	Yes

Battery-backed	No
Synchronizable	Yes
Interfaces	
Number of RS 485 interfaces	0
Number of USB interfaces	0
Number of SD card slots	0
Number of parallel interfaces	0
Number of 20 mA interfaces (TTY)	0
Number of RS 232 interfaces	0
Number of RS 422 interfaces	0
Number of other hardware interfaces	0
With software interfaces	No
Industrial Ethernet	
Number of Industrial Ethernet interfaces	1
Industrial Ethernet status LED	2
IRT, supported	No
Protocols	
PROFINET	Yes
Supports protocol for PROFINET IO	No
Protocols (Ethernet)	
TCP/IP	Yes
DHCP	Yes
SNMP	Yes
DCP	Yes
LLDP	Yes
WEB characteristics	
HTTP	No
HTML	No
Further protocols	
PROFIBUS	No
MPI	No
CAN	No
MODBUS	Yes ; Modicon (MODBUS TCP/IP)

Supports protocol for EtherNet/IP	Yes
Interrupts/diagnostics/status information	
Diagnoses	
Diagnostic information readable	No
Ambient conditions	
Mounting position	vertical
maximum permissible angle of inclination without external ventilation	35°
Operating temperature	
Operation (vertical installation)	0 °C to +50 °C
in vertical mounting position/ minimum	0 °C
in vertical mounting position/ maximum	50 °C
Operation (max. tilt angle)	0 °C to +40 °C
at maximum tilt angle/minimum	0 °C
at maximum tilt angle/maximum	40 °C
Operation (vertical installation, portrait format)	
in vertical mounting position/ minimum	Not applicable
in vertical mounting position/ maximum	Not applicable
Operation (max. tilt angle, portrait format)	
at maximum tilt angle/minimum	Not applicable
at maximum tilt angle/maximum	Not applicable
Storage/transport temperature	
Min.	-20 °C
max.	60 °C
Relative humidity	
max. relative humidity	90 %
Degree and class of protection	
IP (at the front)	IP65
Enclosure Type 4 at the front	Yes
Standards, approvals, certificates	
CE	Yes
KC approval	Yes
cULus	Yes
C-TICK	Yes

FM Class I Div. 2	No
GL	No
ABS	No
BV	No
DNV	No
LRS	No
Class NK	No
PRS	No
Use in hazardous areas	
EX zone 2	No
EX zone 22	No
Class I Zone 1	No
Class I Zone 2, Division 2	No
Operating systems	
Windows CE	No
proprietary	Yes
other	No
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)	Yes ; via integrated WinCC Basic (TIA Portal)
STEP 7 Professional (TIA Portal)	Yes ; via integrated WinCC Basic (TIA Portal)
WinCC flexible Compact	Yes
WinCC flexible Standard	Yes
WinCC flexible Advanced	Yes
WinCC Basic (TIA Portal)	Yes
WinCC Comfort (TIA Portal)	Yes
WinCC Advanced (TIA Portal)	Yes
WinCC Professional (TIA Portal)	Yes

Languages	
Online languages	
Number of online/runtime languages	5
Languages	
Languages per project	32
Languages	
D	Yes
GB	Yes
F	Yes
I	Yes
E	Yes
Chinese traditional	Yes
Chinese simplified	Yes
DK	Yes
FIN	Yes
GR	Yes
J	Yes
KP / ROK	Yes
NL	Yes
N	Yes
PL	Yes
P	Yes
RUS	Yes
S	Yes
CZ / SK	Yes
TR	Yes
H	Yes
Functionality under WinCC flexible	
Libraries	Yes
Task planner	
time-controlled	No
task-controlled	Yes
Status/control	No

With alarm logging system (incl. buffer and acknowledgment)	
Number of alarm classes	32
Number of messages	200
Bit messages	Yes
Analog messages	Yes
System messages HMI	Yes
System messages PLC	No
Message length (in characters)	
Lines	1
Characters	80
Number of process values per message	8
Message indicator	Yes
First/last value	Yes
Message buffer	
Number of entries	256
Circulating buffer	Yes
retentive	Yes
maintenance-free	Yes
Recipes	
Recipes	5
Data records per recipe	20
Entries per data record	20
integrated Flash	40 kbyte
expandable	No
Number of process images	
Process images	50
Variables	500
Number of internal variables	500
Limit values	Yes
Multiplexing	Yes
Structs	No
Image elements	
Number	500

Fields per image	30
Variables per image	30
Permanent window/default	Yes
Global image	Yes
Start screen configurable	Yes
Image selection via PLC	Yes
Image number in the PLC	Yes
Return	J
Graphics object	
Vector graphics	Yes
dynamic objects	Diagrams, bar graphs
Number of plot diagrams per project	25
Number of curves per diagram	4
Online operation of trends	
Compress	No
Slides	No
Methods	
Trend	Yes
Number of bars per chart	5
Direction	
vertical	Yes
horizontal	Yes
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
Number of entries in text lists	30
Graphics list	100
Number of entries in graphics lists	30

Security	
Number of user groups	50
Number of user rights	32
Number of users	50
Passwords exportable	No
SIMATIC LOGON	No
Data carrier support	
USB Memory Drive	No
Character sets	
Keyboard fonts	
US English	Yes
Character sets	
Tahoma	Yes
Arial	No
Courier New	No
WinCC flexible Standard	Yes
Ideographic languages	Yes
all freely scalable	No
Number of additionally loadable character sets	0
Transfer (upload/download)	
MPI/PROFIBUS DP	No
USB	No
Ethernet	Yes
using external storage medium	No
Automatic transfer recognition	Yes
Process coupling	
S7-1200	Yes
MPI	No
PROFIBUS DP	No
PROFINET	Yes
S7-200	Yes
PPI (point-to-point)	No
PPI network	No

MPI	No
PROFIBUS DP	No
Ethernet	Yes ; via CP
S7-300/400	Yes
MPI	No
PROFIBUS DP	No
PROFINET	Yes
Win AC	Yes
TCP/IP	Yes
SINUMERIK	No
SIMOTION	No
Allen Bradley (EtherNet/IP)	Yes
Allen Bradley (DF1)	No
Mitsubishi (MC TCP/IP)	Yes
Mitsubishi (FX)	No
OMRON (LINK/Multilink)	No
OMRON (LINK/Multilink)	No
Modicon (Modbus TCP/IP)	Yes
Modicon (Modbus)	Yes
other non-Siemens drivers	No
Service tools/configuration aids	
Clean screen	Yes
Touch calibration	Yes
Backup/restore	Yes
Backup/Restore automatically	No
Simulation	Yes
Device switchover	Yes
Delta transfer	No
I/O / Options	
I/O devices	
Printer	No
Mounting	
Mounting in portrait format possible	No

Mounting in landscape format possible	Yes
Mechanics/material	
Type of housing (front)	
Plastic	Yes
Aluminum	No
Stainless steel	No
Dimensions	
Width of the housing front	400 mm
Height of housing front	310 mm
Depth/installation dimension	60 mm
Mounting cutout, width	367 mm
Mounting cutout, height	289 mm
Weight	
Weight without packaging	4.2 kg
Weight incl. packaging	4.68 kg
Status	Nov 29, 2011