

Siemens 6ES7492-1AL00-0AA0 Manual

Brand	Siemens
Product Series	Siemens
Product Type	designation SIMATIC HMI KTP1000 Basic color PN

Description

6AV6647-0AF11-3AX0

SIMATIC HMI KTP1000 BASIC COLOR PN, BASIC PANEL, KEY AND TOUCH OPERATION, 10" 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

General information

Product type designation SIMATIC HMI KTP1000 Basic color PN

Display

Design of display TFT

Screen diagonal 10.4 in

Display width 211.2 mm

Display height 158.4 mm

Number of colors 256

Resolution (pixels)

- Horizontal image resolution 640 Pixel
- Vertical image resolution 480 Pixel

Backlighting

- MTBF backlighting (at 25 °C) 50 000 h
- Backlight dimmable No

Control elements

Keyboard fonts

- Function keys

— Number of function keys 8

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

Installation type/mounting

Mounting position vertical

Mounting in portrait format possible No

Mounting in landscape format possible Yes

maximum permissible angle of inclination without

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external ventilation

35°

Supply voltage

Type of supply voltage DC

Rated value (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) 0.6 A

Starting current inrush I^2t 0.2 A²·s

Power

Active power input, typ. 15 W

Processor

Processor type RISC 32-bit

Memory

Flash Yes

RAM Yes

Memory available for user data 2 Mbyte

Type of output

Acoustics

- Buzzer Yes
- Speaker No

Time of day

Clock

- Hardware clock (real-time) No
- Software clock Yes
- retentive No
- synchronizable Yes

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Interfaces

Number of industrial Ethernet interfaces 1

Number of RS 485 interfaces 0

Number of RS 422 interfaces 0

Number of RS 232 interfaces 0

Number of USB interfaces 0

Number of 20 mA interfaces (TTY) 0

Number of parallel interfaces 0

Number of other interfaces 0

Number of SD card slots 0

With software interfaces No

Industrial Ethernet

- Industrial Ethernet status LED 2

Protocols

PROFINET Yes

Supports protocol for PROFINET IO No

IRT No

PROFIBUS No

MPI No

Protocols (Ethernet)

- TCP/IP Yes
- DHCP Yes

- SNMP Yes

- DCP Yes

- LLDP Yes

WEB characteristics

- HTTP No

- HTML No

Further protocols

- CAN No

- EtherNet/IP Yes

- MODBUS Yes; Modicon (MODBUS TCP/IP)

Interrupts/diagnostics/status information

Diagnostic messages

- Diagnostic information readable No

Degree and class of protection

IP (at the front) IP65

Enclosure Type 4 at the front Yes

Enclosure Type 4x at the front Yes

IP (rear) IP20

Standards, approvals, certificates

CE mark Yes

cULus Yes

RCM (formerly C-TICK) Yes

KC approval Yes

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

- Nippon Kaiji Kyokai (Class NK) Yes

- Polski Rejestr Statkow (PRS) No

Use in hazardous areas

- ATEX Zone 2 No

- ATEX Zone 22 No

- cULus Class I Zone 1 No

- cULus Class I Zone 2, Division 2 No

- FM Class I Division 2 No

Ambient conditions

Ambient temperature during operation

- Operation (vertical installation)

— For vertical installation, min. 0 °C

— For vertical installation, max. 50 °C

- Operation (max. tilt angle)

— At maximum tilt angle, min. 0 °C

— At maximum tilt angle, min. 40 °C

Ambient temperature during storage/transportation

- min. -20 °C

- max. 60 °C

Relative humidity

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- Operation, max. 90 %; no condensation

Operating systems

proprietary Yes

pre-installed operating system

- Windows CE No

Configuration

Message indicator Yes

Alarm system (incl. buffer and acknowledgment) Yes

Process value display (output) Yes

Process value default (input) possible Yes

Recipe management 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

Project languages

- Languages per project 32

Functionality under WinCC (TIA Portal)

Libraries Yes

Task planner

- time-controlled No
- task-controlled Yes

Message system

- Number of alarm classes 32
- Bit messages
 - Number of bit messages 200
- Analog messages
 - Number of analog messages 15
- System messages HMI Yes
- Number of characters per message 80
- Number of process values per message 8
- Message indicator Yes
- Message buffer
 - Number of entries 256
 - Circulating buffer Yes
 - retentive Yes
 - maintenance-free Yes

Recipe management

- Number of recipes 5
- Data records per recipe 20
- Entries per data record 20
- Size of internal recipe memory 40 kbyte

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- Recipe memory expandable No

Variables

- Number of variables per device 500
- Number of variables per screen 30
- Limit values Yes
- Multiplexing Yes
- Structures No
- Arrays Yes

Images

- Number of configurable images 50
- Permanent window/default Yes
- Global image Yes
- Image selection by PLC Yes
- Image number in the PLC Yes

Image objects

- Number of objects per image 30
- Text fields Yes
- I/O fields Yes
- Graphic I/O fields (graphics list) Yes
- Symbolic I/O fields (text list) Yes
- Date/time fields Yes
- Switches Yes
- Buttons Yes
- Graphic display Yes
- Icons Yes
- Geometric objects Yes

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Complex image objects

- Number of complex objects per screen 5
- Alarm view Yes
- Trend view Yes
- User view Yes
- Status/control No
- Sm@rtClient view No
- Recipe view Yes
- f(x) trend view No
- System diagnostics view No
- Media Player No
- Bar graphs Yes
- Sliders No
- Pointer instruments No
- Analog/digital clock No

Number of text lists per project 150

- Number of entries per text list 30
- Number of graphics lists per project 100
- Number of entries per graphics list 30

Archiving

- Number of archives per device 0

Security

- Number of user groups 50
- Number of user rights 32
- Number of users 50

- Password export/import No

- SIMATIC Logon No

Peripherals/Options

Peripherals

- Printer No

- SIMATIC HMI MM memory card: Multi Media

Card

No

- SIMATIC HMI SD memory card: Secure Digital
memory card

No

- USB memory No

Mechanics/material

Enclosure material (front)

- Plastic Yes

- Aluminum No

- Stainless steel No

Dimensions

Width of the housing front 335 mm

Height of housing front 275 mm

Mounting cutout, width 310 mm

Mounting cutout, height 248 mm

Overall depth 60 mm

Weights

Weight without packaging 2.65 kg

Weight incl. packaging 3.38 kg

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