

Siemens 6AV2128-3KB06-0AX1 Manual

Brand	Siemens
Product Series	Sheet15
Product Type	designation MTP1000 Unified Comfort

Description

6AV2128-3KB06-0AX1

SIMATIC HMI MTP1000, Unified Comfort Panel, touch operation, 10.1" widescreen TFT display, 16 million colors, PROFINET interface, configurable as of WinCC Unified Comfort V16, contains open-source software, which is provided free of charge see enclosed DVD

General information

Product type designation MTP1000 Unified Comfort

Display

Design of display TFT

Screen diagonal 10.1 in

Display width 217 mm

Display height 135.6 mm

Number of colors 16 777 216

Resolution (pixels)

- Horizontal image resolution 1 280 pixel
- Vertical image resolution 800 pixel

Backlighting

- MTBF backlighting (at 25 °C) 50 000 h; At 25°C
- Backlight dimmable Yes; 5-100 %

Control elements

Keyboard fonts

- Numeric keyboard Yes; Onscreen keyboard
- alphanumeric keyboard Yes; Onscreen keyboard

Touch operation

- Design as touch screen Yes
- Design as multi-touch screen Yes

Installation type/mounting

Mounting position vertical

Mounting in portrait format possible Yes

Mounting in landscape format possible Yes

maximum permissible angle of inclination without 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

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Input current

Current consumption (rated value) 0.5 A

Current consumption, max. 1.1 A

Starting current inrush I^2t 0.5 A²·s

Memory

Flash Yes

RAM Yes

Type of output

Acoustics

• Buzzer Yes

• Speaker No

Time of day

Clock

• Hardware clock (real-time) Yes

• Software clock Yes

• retentive Yes; Back-up duration typically 6 weeks

• synchronizable Yes

Interfaces

Number of industrial Ethernet interfaces 2; 2 ports (switch) + independent port

Number of RS 485 interfaces 1; RS 422 / 485 combined

Number of RS 422 interfaces 0; together with RS 485

Number of USB interfaces 4; USB 3.1 Gen. 1 (type A)

Number of SD card slots 2

Industrial Ethernet

• Industrial Ethernet status LED 2

• Number of ports of the integrated switch 2

Protocols

PROFINET Yes

Supports protocol for PROFINET IO No

Protocols (Ethernet)

• TCP/IP Yes

• DHCP Yes

• SNMP Yes

• DCP Yes

• LLDP Yes

Redundancy mode

Media redundancy

— MRP Yes

EMC

Emission of radio interference acc. to EN 55 011

• Limit class A, for use in industrial areas Yes

• Limit class B, for use in residential areas No

Degree and class of protection

IP (at the front) IP65

IP (rear) IP20

NEMA (front)

• Enclosure Type 4x at the front Yes

• Enclosure Type 12 at the front No

Standards, approvals, certificates

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CE mark Yes

cULus Yes

RCM (formerly C-TICK) Yes

KC approval Yes

EAC (formerly Gost-R) Yes

CCC Yes

Use in hazardous areas

- ATEX Zone 2 Yes
- ATEX Zone 22 Yes
- IECEx Zone 2 Yes
- IECEx Zone 22 Yes
- cULus Class I Zone 2, Division 2 Yes
- cULus Class II Division 2 Yes
- FM Class I Division 2 No; Available soon
- FM Class II Division 2 No

Marine approval

- Germanischer Lloyd (GL) No; included in DNV
- American Bureau of Shipping (ABS) Yes
- Bureau Veritas (BV) Yes
- Det Norske Veritas (DNV) Yes
- Korean Register of Shipping (KRS) Yes

- Lloyds Register of Shipping (LRS) Yes
- Nippon Kaiji Kyokai (Class NK) Yes
- Chinese Classification Society (CCS) Yes

Ambient conditions

Suited for indoor use Yes

Suited for outdoor use No

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, max. 40 °C

Operation (vertical installation, portrait format)

- For vertical installation, min. 0 °C
- For vertical installation, max. 40 °C

Operation (max. tilt angle, portrait format)

- At maximum tilt angle, min. 0 °C
- At maximum tilt angle, max. 35 °C

Ambient temperature during storage/transportation

- min. -20 °C
- max. 60 °C

Relative humidity

- Operation, max. 90 %; no condensation

Operating systems

proprietary Yes

configuration / header

Message indicator Yes

Alarm system (incl. buffer and acknowledgment) Yes

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Process value display (output) Yes

Process value default (input) possible Yes

Recipe management Yes

Configuration software

- WinCC Unified Comfort Engineering (TIA Portal) Yes
- WinCC Unified PC Engineering (TIA Portal) Yes

Languages

Online languages

- Number of online/runtime languages 32

Project languages

- Languages per project 32

Functionality under WinCC Unified

Libraries Yes

Applications/options

- Writer Yes
- Web browser Yes
- Media Player Yes
- SIMATIC WinCC Sm@rtServer Yes
- SIMATIC WinCC Audit No
- Unified Collaboration Yes

JavaScript Yes

Task planner

- time-controlled Yes
- task-controlled Yes

Help system

- Number of characters per info text 70
- Number of message texts per message 10

functionality under WinCC Unified / alarm system / header

- Number of alarm classes 32
- Bit messages
 - Number of bit messages 9 000
- Analog messages
 - Number of analog messages 300
- S7 alarm number procedure Yes

Dimensions

Width of the housing front 280 mm

Height of housing front 205 mm

Mounting cutout, width 264 mm

Mounting cutout, height 189 mm

Overall depth 64 mm

Weights

Weight (without packaging) 2.1 kg

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