



Figure similar

SIMATIC HMI, KTP1200 BASIC DP, BASIC PANEL, KEY AND TOUCH OPERATION, 12" TFT DISPLAY, 65536 COLORS, PROFIBUS INTERFACE, CONFIGURATION FROM WINCC BASIC V13/ STEP7 BASIC V13, CONTAINS OPEN SOURCE SW WHICH IS PROVIDED FREE OF CHARGE FOR DETAILS SEE CD

Product type designation	
Display	
Design of display	TFT widescreen display, LED backlighting
Screen diagonal	12 in
Display width	261.1 mm
Display height	163.2 mm
Number of colors	65 536
Resolution (pixels)	
• Horizontal image resolution	1 280
• Vertical image resolution	800
Backlighting	
• MTBF backlighting (at 25 °C)	20 000 h
• Dimmable backlight	Yes
Control elements	
Keyboard	
• Function keys	
— Number of function keys	10
• 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 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	24 V 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)	550 mA
Inrush current A ² s	0.2 A ² s
Power	
Power consumption, typ.	13.2 W
Memory	
Flash	Yes
RAM	Yes
Usable memory for user data	10 Mbyte
Type of output	
Acoustics	
• Buzzer	Yes
• Speaker	No
Time of day	
Clock	
• Hardware clock (real-time clock)	Yes
• Software clock	Yes
• Battery-backed	Yes
• Synchronizable	Yes
Interfaces	
Number of RS 485 interfaces	1
Number of USB interfaces	1
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	1
Number of other interfaces	0
With software interfaces	No
Industrial Ethernet	

- Number of industrial Ethernet interfaces 0
- Industrial Ethernet status LED 0

Protocols

PROFINET	No
PROFINET IO	No
IRT supported	No
MRP supported	No
PROFIBUS	Yes
MPI	Yes

Protocols (Ethernet)

- TCP/IP No
- DHCP No
- SNMP No
- DCP No
- LLDP No

WEB characteristics

- HTTP No
- HTML No

Further protocols

- CAN No
- MODBUS Yes; Modicon (MODBUS RTU)
- Supports protocol for EtherNet/IP No

Interrupts/diagnostics/status information

Diagnostic messages

- Diagnostic information readable No

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)	65
Enclosure Type 4 at the front	Yes
Enclosure type 4x at the front	Yes

Standards, approvals, certificates

CE mark	Yes
KC approval	Yes
cULus	Yes
RCM (formerly C-TICK)	Yes

Use in hazardous areas

- ATEX Zone 2 No

• ATEX Zone 22	No
• IECEx Zone 2	No
• IECEx 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 in operation

• Operation (vertical installation)	
— in vertical mounting position, minimum	0 °C
— in vertical mounting position, maximum	50 °C
• Operation (max. tilt angle)	
— at maximum tilt angle, minimum	0 °C
— at maximum tilt angle, maximum	40 °C
• Operation (vertical installation, portrait format)	
— in vertical mounting position, minimum	0 °C
— in vertical mounting position, maximum	40 °C
• Operation (max. tilt angle, portrait format)	
— at maximum tilt angle, minimum	0 °C
— at maximum tilt angle, maximum	35 °C

Storage/transport temperature

• Min.	-20 °C
• max.	60 °C

Relative humidity

• Operation, max.	90 %
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Operating systems

Pre-installed operating system

• Windows CE	No
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proprietary

Yes

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	No
• WinCC flexible Standard	No

• WinCC flexible Advanced	No
• 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	10
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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	Yes
— TR	Yes
— H	Yes

Functionality under WinCC (TIA Portal)

Libraries	Yes
Number of Visual Basic Scripts	No
Task planner	Yes
• time-controlled	No
• task-controlled	Yes
Help system	Yes
• Number of characters per info text	500

Message system

• Number of alarm classes	32
• Number of bit messages	1 000
• Number of analog messages	25
• S7 alarm number procedure	No
• System messages HMI	Yes
• System messages, other (SIMATIC S7, Sinumerik, Simotion, etc.)	Yes; System message buffer of the SIMATIC S7-1200 and S7-1500
• Number of characters per message	80
• Number of process values per message	8
• Acknowledgment groups	Yes
• Message indicator	Yes
• Message buffer	
— Number of entries	256
— Circulating buffer	Yes
— retentive	Yes
— maintenance-free	Yes
Recipe administration	
• Number of recipes	50
• Data records per recipe	100
• Entries per data record	100
• Size of internal recipe memory	256 kbyte
• Recipe memory expandable	No
Variables	
• Number of variables per device	800
• Number of variables per screen	100
• Limit values	Yes
• Multiplexing	Yes
• Structs	No
• Arrays	Yes
Images	
• Number of configurable images	100
• Permanent window/default	Yes
• Global image	Yes
• Start screen configurable	Yes
• Image selection by PLC	Yes
• Image number in the PLC	Yes
Image objects	
• Number of objects per image	100
• 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 view	Yes
• Icons	Yes
• Geometric objects	Yes
Complex image objects	
• Number of complex objects per screen	10
• 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	Yes; System message buffer of the SIMATIC S7-1200 and S7-1500
• Media Player	No
• Bar graphs	Yes
• Sliders	No
• Pointer instruments	No
• Analog/digital clock	No
Lists	
• Number of text lists per project	300
• Number of entries per text list	100
• Number of graphics lists per project	100
• Number of entries per graphics list	100
Archiving	
• Number of archives per device	2
• Number of entries per archive	10 000
• Message archive	Yes
• Process value archive	Yes
• Archiving methods	
— Sequential archive	Yes
— Short-term archive	Yes
• Memory location	
— Memory card	No
— USB memory	Yes
— Ethernet	No
• Data storage format	

— CSV	Yes
— TXT	No
— RDB	No
Security	
• Number of user groups	50
• Number of user rights	32
• Number of users	50
• Password export/import	Yes
• SIMATIC Logon	No
Character sets	
• Keyboard	
— US American (English)	Yes
• Character sets	
— Tahoma	Yes
— Arial	No
— Courier New	No
— WinCC flexible Standard	Yes
— Ideographic languages	Yes
• Font size freely scalable	Yes
• Additional character sets can be loaded	Yes
Transfer (upload/download)	
• MPI/PROFIBUS DP	Yes
• USB	No
• Ethernet	No
• using external storage medium	No
Process coupling	
• S7-1200	Yes
• S7-1500	Yes
• S7-200	Yes
• S7-300/400	Yes
• LOGO!	Yes
• Win AC	Yes
• SIMOTION	Yes
• Allen Bradley (EtherNet/IP)	No
• Allen Bradley (DF1)	Yes
• Mitsubishi (MC TCP/IP)	No
• Mitsubishi (FX)	Yes
• OMRON (FINS TCP)	No
• OMRON (LINK/Multilink)	Yes
• Modicon (Modbus TCP/IP)	No
• Modicon (Modbus)	Yes

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
• MultiMediaCard	No
• SD card	No
• USB memory	Yes

Mechanics/material	
Type of housing (front)	
• plastic	Yes
• aluminum	No
• Stainless steel	No

Dimensions	
Width of the housing front	330 mm
Height of housing front	245 mm
Mounting cutout/device depth (W x H x T)	
• Mounting cutout, width	310 mm
• Mounting cutout, height	221 mm
Device depth	60 mm

Weights	
Without packaging	1 710 g
With packaging	2.2 kg
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