## **SIEMENS**

## **Data sheet**

SIMATIC HMI KP1500 Comfort, Comfort Panel, key operation, 15" widescreen TFT display, 16 million colors, PROFINET interface, MPI/PROFIBUS DP interface, 24 MB configuration memory, WEC 2013, configurable as of WinCC Comfort V14 SP1 with HSP, ambient temperature up to 45  $^{\circ}\text{C}$ 



General information	
Product type designation	KP1500 Comfort
Display	
Design of display	TFT
Screen diagonal	15.4 in
Display width	331.2 mm
Display height	207 mm
Number of colors	16 777 216
Resolution (pixels)	
<ul> <li>Horizontal image resolution</li> </ul>	1 280 pixel
Vertical image resolution	800 pixel
Backlighting	
<ul> <li>MTBF backlighting (at 25 °C)</li> </ul>	80 000 h
Backlight dimmable	Yes; LED, dimmable
Control elements	
Keyboard fonts	
<ul><li>Function keys</li></ul>	
<ul> <li>Number of function keys</li> </ul>	36
<ul> <li>Keys with LED</li> </ul>	Yes
System keys	Yes
Numeric keyboard	Yes
alphanumeric keyboard	Yes
Touch operation	
Design as touch screen	No
Expansions for operator control of the process	
<ul> <li>DP direct LEDs (LEDs as S7 output I/O)</li> </ul>	
— F1Fx	36
<ul> <li>Direct keys (keys as S7 input I/O)</li> </ul>	
— F1Fx	36
Installation type/mounting	
Mounting position	vertical
Mounting in portrait format possible	No
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

Input current	
	1.7 A
Current consumption (rated value)	1.7 A 0.5 A <sup>2</sup> ·s
Starting current inrush I²t	U.U.A. 3
Power Active reversions to the	44 W
Active power input, typ.	41 W
Processor	
Processor type	X86
Memory	
Flash	Yes
RAM	Yes
Memory available for user data	24 Mbyte
Type of output	
Info LED	No
Power LED	No
Error LED	No
Acoustics	
Buzzer	No
Speaker	Yes
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
Number of RS 232 interfaces	0
Number of USB interfaces	2; USB 2.0
Number of 20 mA interfaces (TTY)	0
Number of parallel interfaces	0
Number of other interfaces	0
Number of SD card slots	2
With software interfaces	No
Industrial Ethernet	
Industrial Ethernet status LED	3
<ul> <li>Number of ports of the integrated switch</li> </ul>	2
Protocols	
PROFINET	Yes
Supports protocol for PROFINET IO	Yes
IRT	Yes; WinCC V14 SP1 HSP or higher
PROFIBUS	Yes
EtherNet/IP	Yes
MPI	Yes
Protocols (Ethernet)	
• TCP/IP	Yes
• DHCP	Yes
• SNMP	Yes
• DCP	Yes
• LLDP	Yes
WEB characteristics	
HTTP	Yes
• HTTPS	Yes
• HTML	Yes
• XML	Yes
• CSS	Yes
Active X      Active Option	Yes
JavaScript	Yes
• Java VM	No

Media redundancy	Pedundanov mode	
_ MIDP   President protocols   CAN   No	Redundancy mode  Media redundancy	
CAN	·	Vec
		1 00
A LOGBUS   Ves	·	No
Diagnoses  - Diagnosisic information readable		
Diagnosics   Yes; \$7 controller		1 tes
EMC  Emission of radio inferference acc. to EN \$5 011  • Limit class B, for use in industrial areas • Limit class B, for use in industrial areas Porero and class of protection  IP (ath front)   P( rearr)	•	Voc. S7 controller
Emission of radio interference acc. Io EN 5011		res, or controller
Limit class A, for use in industrial areas Limit class B, for use or industrial areas No  Degree and class of protection  IP (atth front) P( rear) IP (atth front) F( rear)		
● Unit class B, for use in residential areas    Po (at the front)   Pie55     Pi (rear)   Pie20     Pie20   Pie20   Pie20     Pie20   Pie20   Pie20   Pie20     Pie20   Pie20   Pie20   Pie20     Pie20   Pie20   Pie20   Pie20   Pie20     Pi (rear)   Pie20   Pie20   Pie20   Pie20     Pi (rear)   Pie20		Vac
Pictor front		
P (ear)   P (e		No
IP20   NEMA (front)		IP65
NEMA (front)		
• Enclosure Type 4 at the front Yes    Enclosure Type 4 at the front Yes		11 20
Enclosure Type 4x at the front		Yes
Standards, spprovals, certificates	• •	
CE mark         Yes           CULus         Yes           CKM (formerly C-TICK)         Yes           KC approval         Yes           EAC (formerly Gost-R)         Yes           Use in hazardous areas         Ves           Variable State S		
CULUS         Yes           RCM (formerly C-TICK)         Yes           EAC (formerly Gost-R)         Yes           Use in hazardous areas         ****  *******************************		Yes
RCM (formerly C-TICK)		
Yes		
EAC (formerly Gost-R)		
Ves	·	
		Yes
	ATEX Zone 22	Yes
cULus Class I Zone 2, Division 2 cULus Class I Division 2 CULus Class I Division 2 FM Class II Divariate 2 FM Class II Division 2 FM Class II Division 2 FM Class	• IECEx Zone 2	Yes
	• IECEx Zone 22	Yes
CULus Class I Division 2 FM Class I Division 2  FM Class I Division 2  FM Class I Division 2  FM Class I Division 2  FM Class I Division 2  FM Class I Division 2  FM Class I Division 2  No  Marine approval  FM Class I Division 2  FM Class I Division 2  No  Marine approval  FM Class I Division 2  No  Merican Bureau Verlas (BV)  FM Class I Division 2  FM Class II Division 2  FM Class III Division 2	• cULus Class I Zone 1	No
CULus Class I Division 2 FM Class I Division 2  FM Class I Division 2  FM Class I Division 2  FM Class I Division 2  FM Class I Division 2  FM Class I Division 2  FM Class I Division 2  No  Marine approval  FM Class I Division 2  FM Class I Division 2  No  Marine approval  FM Class I Division 2  No  Merican Bureau Verlas (BV)  FM Class I Division 2  FM Class II Division 2  FM Class III Division 2	• cULus Class I Zone 2. Division 2	Yes
Marine approval  Cermanischer Lloyd (GL) American Bureau of Shipping (ABS) Bureau Veritas (BV) Det Norske Veritas (DNV) Korean Register of Shipping (KRS) Nippon Kaiji Kyokai (Class NK) Polski Rejestr Statkow (PRS) Chinese Classification Society (CCS)  Marbient conditions  Suited for indoor use  Suited for outdoor use  Ambient temperature during operation  Operation (vertical installation, min. For vertical installation, max.  At maximum tilt angle, min. At maximum tilt angle, max.  Por vertical installation, portrait format)  For vertical installation, portrait format)  For vertical installation, portrait format)  Por vertical installation, min. For vertical installation, portrait format)  Por vertical installation, portrait format)  Por vertical installation, min. Por vertical installation, portrait format)  Por vertical installation, portrait format)  Por vertical installation, min. Por vertical installation, min. Por vertical installation, portrait format)  Por vertical installation, portrait format)	cULus Class II Division 2	No
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Germanischer Lloyd (GL) American Bureau of Shipping (ABS) Bureau Veritas (BV) Det Norske Veritas (DNV) Korean Register of Shipping (KRS) Lloyds Register of Shipping (LRS) Polski Rejestr Statkow (PRS) Chinese Classification Society (CCS)  Ambient conditions  Suited for indoor use Suited for outdoor use Ambient temperature during operation Operation (vertical installation, min. For vertical installation, max. Operation (vertical installation, portrait format)  — For vertical installation, portrait format)  — For vertical installation, min. — For vertical installation, portrait format)  — For vertical installation, min. — For vertical installation, portrait format)  — For vertical installation, min. — For vertical installation, portrait format)  — For vertical installation, min. — For vertical installation, portrait format)  — For vertical installation, min. — For vertical installation, min. — For vertical installation, portrait format)  — For vertical installation, min. — For vertical installation.	FM Class II Division 2	No
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Operation (vertical installation, portrait format)  — For vertical installation, min.  — For vertical installation, max.  40 °C  Operation (max. tilt angle, portrait format)	<ul> <li>At maximum tilt angle, min.</li> </ul>	0 °C
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— For vertical installation, max. 40 °C  Operation (max. tilt angle, portrait format)	Operation (vertical installation, portrait format)	
Operation (max. tilt angle, portrait format)	— For vertical installation, min.	0 °C
	·	40 °C
— At maximum tilt angle, min. 0 °C	-	
	— At maximum tilt angle, min.	0 °C

— At maximum tilt angle, max.	40 °C
Ambient temperature during storage/transportation	
• min.	-20 °C
• max.	60 °C
Relative humidity	
Operation, max.	90 %; no condensation
Operating systems	
proprietary	No
pre-installed operating system	
<ul> <li>Windows CE</li> </ul>	Yes; Windows Embedded Compact 2013
configuration / header	
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)	No
STEP 7 Professional (TIA Portal)	No
WinCC flexible Compact	No
WinCC flexible Standard	No
WinCC flexible Advanced	No
WinCC Basic (TIA Portal)	No
WinCC Comfort (TIA Portal)	Yes; V14 SP1 HSP and higher
WinCC Advanced (TIA Portal)	Yes; V14 SP1 HSP and higher
WinCC Professional (TIA Portal)	Yes; V14 SP1 HSP and higher
Languages	
Online languages	
Number of online/runtime languages	32
Project languages	
Languages per project	32
Functionality under WinCC (TIA Portal)	
Libraries	Yes
Applications/options	
Web browser	Yes
Pocket Word	Yes
Pocket Excel	Yes
PDF Viewer	Yes
Media Player	Yes
SIMATIC WinCC Sm@rtServer	Yes
SIMATIC WINCC SINGITISEIVEI     SIMATIC WINCC Audit	Yes
Number of Visual Basic Scripts	Yes
Task planner	
• time-controlled	Yes
task-controlled	Yes
Message system	100
Number of alarm classes	32
Bit messages	02
Number of bit messages	6 000
Analog messages	
— Number of analog messages	200
System messages HMI	Yes
System event, more (SIMATIC S7, SINUMERIK,	Yes
• System event, more (SIMATIC 57, SINOMERIX, SIMOTION,)	160
Number of characters per message	80
Number of process values per message	8
Acknowledgment groups	Yes
Message indicator	Yes
Recipe management	
Number of recipes	500
Data records per recipe	1 000

Entries per data record	2 000
Size of internal recipe memory	4 Mbyte
Recipe memory expandable	Yes
Variables	165
Number of variables per device	4 096
Number of variables per screen	400
Limit values	Yes
Multiplexing	Yes
• Structures	Yes
• Arrays	Yes
Images	100
Number of configurable images	750
Permanent window/default	Yes
Global image	Yes
Pop-up images	Yes
Slide-in images	Yes
Image selection by PLC	Yes
Image number in the PLC	Yes
Image objects	
Number of objects per image	600
Text fields	Yes
• I/O fields	Yes
<ul> <li>Graphic I/O fields (graphics list)</li> </ul>	Yes
Symbolic I/O fields (text list)	Yes
Date/time fields	Yes
<ul> <li>Switches</li> </ul>	Yes
Buttons	Yes
Graphic display	Yes
• Icons	Yes
Geometric objects	Yes
Complex image objects	
<ul> <li>Number of complex objects per screen</li> </ul>	40
Alarm view	Yes
<ul><li>Trend view</li></ul>	Yes
• User view	Yes
Status/control	Yes
<ul> <li>Sm@rtClient view</li> </ul>	Yes
Recipe view	Yes
<ul><li>f(x) trend view</li></ul>	Yes
<ul> <li>System diagnostics view</li> </ul>	Yes
Media Player	Yes
HTML browser	Yes
PDF display	Yes
IP camera display	Yes
Bar graphs	Yes
• Sliders	Yes
Pointer instruments	Yes
	Tes
Analog/digital clock	Yes
Analog/digital clock     Lists	Yes
<ul><li>Analog/digital clock</li><li>Lists</li><li>Number of text lists per project</li></ul>	Yes 500
<ul> <li>Analog/digital clock</li> <li>Lists</li> <li>Number of text lists per project</li> <li>Number of entries per text list</li> </ul>	Yes 500 500
<ul> <li>Analog/digital clock</li> <li>Lists</li> <li>Number of text lists per project</li> <li>Number of entries per text list</li> <li>Number of graphics lists per project</li> </ul>	Yes 500 500
<ul> <li>Analog/digital clock</li> <li>Lists</li> <li>Number of text lists per project</li> <li>Number of entries per text list</li> <li>Number of graphics lists per project</li> <li>Number of entries per graphics list</li> </ul>	Yes 500 500
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<ul> <li>Analog/digital clock</li> <li>Lists</li> <li>Number of text lists per project</li> <li>Number of entries per text list</li> <li>Number of graphics lists per project</li> <li>Number of entries per graphics list</li> <li>Archiving</li> <li>Number of archives per device</li> </ul>	Yes  500 500 500 500 500
<ul> <li>Analog/digital clock</li> <li>Lists</li> <li>Number of text lists per project</li> <li>Number of entries per text list</li> <li>Number of graphics lists per project</li> <li>Number of entries per graphics list</li> <li>Archiving</li> <li>Number of archives per device</li> <li>Number of entries per archive</li> </ul>	Yes  500 500 500 500 500
<ul> <li>Analog/digital clock</li> <li>Lists</li> <li>Number of text lists per project</li> <li>Number of entries per text list</li> <li>Number of graphics lists per project</li> <li>Number of entries per graphics list</li> <li>Archiving</li> <li>Number of archives per device</li> <li>Number of entries per archive</li> <li>Message archive</li> </ul>	Yes  500 500 500 500  50 50  Yes
Analog/digital clock  Lists      Number of text lists per project     Number of entries per text list     Number of graphics lists per project     Number of entries per graphics list  Archiving      Number of archives per device     Number of entries per archive     Message archive     Process value archive	Yes  500 500 500 500 500
Analog/digital clock  Lists      Number of text lists per project     Number of entries per text list     Number of graphics lists per project     Number of entries per graphics list  Archiving      Number of archives per device     Number of entries per archive     Message archive     Process value archive     Archiving methods	Yes  500 500 500 500 500  50  Yes Yes
Analog/digital clock  Lists      Number of text lists per project     Number of entries per text list     Number of graphics lists per project     Number of entries per graphics list  Archiving      Number of archives per device     Number of entries per archive     Message archive     Process value archive	Yes  500 500 500 500  50 50  Yes

<ul> <li>Memory location</li> </ul>	
— Memory card	Yes
— USB memory	Yes
— Ethernet	Yes
Data storage format	
— CSV	Yes
— TXT	Yes
— RDB	Yes
Security	
Number of user groups	50
Number of user rights	32
Number of users	50
<ul> <li>Password export/import</li> </ul>	Yes
SIMATIC Logon	Yes
Logging through printer	
• Alarms	Yes
Report (shift log)	Yes
Hardcopy	Yes
Electronic print to file	Yes; PDF, HTML
Character sets	, ,
Keyboard fonts	
— US English	Yes
Transfer (upload/download)	
MPI/PROFIBUS DP	Yes
• USB	Yes
• Ethernet	Yes
	Yes
using external storage medium     Process coupling	165
• \$7-1200	Yes
• S7-1500	Yes
• S7-200	Yes
• S7-300/400	Yes
• LOGO!	Yes
WinAC     SINUMERUK	Yes
SINUMERIK     SINOTION	Yes; with SINUMERIK option package
SIMOTION  Allers Provides (File of Let (ID))	Yes
Allen Bradley (EtherNet/IP)	Yes
Allen Bradley (DF1)     Allen Bradley (DF1)	Yes
Mitsubishi (MC TCP/IP)	Yes
Mitsubishi (FX)     Mitsubishi (FX)	Yes
OMRON (FINS TCP)	No
OMRON (LINK/Multilink)     TOR(ID)	Yes
Modicon (Modbus TCP/IP)	Yes
Modicon (Modbus)	Yes
OPC UA Client	Yes
OPC UA Server	Yes
Service tools/configuration aids	
<ul> <li>Backup/Restore manually</li> </ul>	Yes
<ul> <li>Backup/Restore automatically</li> </ul>	Yes
<ul><li>Simulation</li></ul>	Yes
Device switchover	Yes
Peripherals/Options	
Printer	Yes
SIMATIC HMI MM memory card: Multi Media Card	Yes; Up to 128 MB
SIMATIC HMI SD memory card: Secure Digital memory card	Yes; Up to 2 GB
SIMATIC HMI CF memory card Compact Flash Card	No
USB memory	Yes
SIMATIC IPC USB Flashdrive (USB stick)	Yes; Up to 16 GB
SIMATIC HMI USB stick	Yes; Up to 8 GB
Network camera	Yes

Mechanics/material	
Enclosure material (front)	
Plastic	No
• Aluminum	Yes
Stainless steel	No
Dimensions	
Width of the housing front	483 mm
Height of housing front	310 mm
Mounting cutout, width	450 mm
Mounting cutout, height	291 mm
Overall depth	75 mm
Weights	
Weight (without packaging)	4.7 kg

last modified: 10/25/2023 🖸