SIEMENS

Data sheet

spare part SIPLUS HMI KTP600 Basic Color PN based on 6AV6647-0AD11-3AX0 with conformal coating, -25...+60 °C, 5.7" TFT display, 256 colors Ethernet interface



Product type designation Display Design of display TFT Screen diagonal Display width 115.2 mm Display height 86.4 mm Number of colors Resolution (bixels) Horizontal image resolution • Vertical image resolution • No Control alsometis Keyboard fonts • Function keys - Number of function keys with LEDs • Keys with LED • Keys with LED • No • System keys • No • No No System keys • No • No	General information	
Design of display Screen diagonal 5.7 in Display width Display height 86.4 mm Number of colors 256 Resolution (pixels) • Vertical image resolution • Sacklight dimmable No Control elements Keyboard fonts • Function keys • Number of function keys • Number of function keys with LEDs • Keys with LED • No • System keys • Numeric keyboard • Jehnanumeric keyboard • Jehnanumeric keyboard • Jehnanumeric keyboard • Jesign as touch screen • Pesign as touch screen • Yes Installation type/mounting Mounting in portrait format possible Mounting in inandscape format possible Ves Mounting in portrait	Product type designation	KTP600 Basic color PN
Screen diagonal 5.7 in Display width 115.2 mm Display height 88.4 mm Number of colors 256 Resolution (pixels)	Display	
Display width Display height Bis 4 mm Display height Bis 5 mm Number of colors Evertical function keys Installation type/mounting Mounting of position Display width Display width Bis 5 ms Display width Display width Display width Bis 6 ms Display width Display wi	Design of display	TFT
Display height Number of colors 256 Resolution (pixels) - Horizontal image resolution - Vertical image resolution - Vertical image resolution - Sacklighting - MTBF backlighting (at 25 °C) - Backlighting (at 25 °C) - Backlight dinmable - No Control elements Keyboard fonts - Function keys - Number of function keys - Number of function keys with LEDs - Number of function keys with LED - System keys - Number of vertical mage resolution - System keys - No - Number of function keys with LEDs - No - System keys - No - No - System keys - No - Numeric keyboard - Yes; Onscreen keyboard - alphanumeric keyboard - yes; Onscreen keyboard - Touch operation - Design as touch screen - Yes - Installation type/mounting - Mounting position - Rack mounting - No - Mounting in landscape format possible - Mounting in landscape format possible - Yes - Mounting in landscape format possible - Yes - maximum permissible angle of inclination without external ventilation - Supply voltage - Type of supply voltage - Rated value (DC) - 24 V - permissible range, lower limit (DC) - Input current	Screen diagonal	5.7 in
Number of colors Resolution (pixels) Horizontal image resolution Vertical image resolution No No Control cloments Keyboard fonts Vertical image resolution No Mounting position vertical Rack mounting Mounting in portrat format possible image of inclination without external ventilation Versical images resolution in vertical image resolution image resolution in vertical image resolution image resolutio	Display width	115.2 mm
Resolution (pixels) • Horizontal image resolution • Vertical image resolution 240 pixel Backlighting • MTBF backlighting (at 25 °C) • Backlight (immable No Control elements Keyboard fonts • Function keys — Number of function keys — Number of function keys (and in the pixel in the	Display height	86.4 mm
Horizontal image resolution Vertical image resolution ATBF backlighting (at 25 °C) Backlighting (at 25 °C) Backlight dimmable No Control elements Keyboard fonts Function keys Number of function keys No Keys with LED Keys with LED No Keys with LED No System keys Numeric keyboard Alphanumeric keyboard Alphanumeric keyboard Alphanumeric keyboard Design as touch screen Pesign as touch screen Mounting position Rack mounting Mounting in portrait format possible Mounting in partrait format possible Mounting in landscape format possible Mounting portsible angle of inclination without external Supply voltage Type of supply voltage Type of supply voltage Type of supply voltage Rack value Touch permissible range, upper limit (DC) Input current	Number of colors	256
Vertical image resolution Backlighting MTBF backlighting (at 25 °C) 50 000 h Backlight dimmable No Control elements Keyboard fonts Function keys Number of function keys No Keys with LED Keys with LED No Keys with LED No System keys No Numeric keyboard Induction keys No No No No System keys No No No System keys No No No No System keys No No No No System keys No No No System keys No No No No No No No No No N	Resolution (pixels)	
Backlighting • MTBF backlighting (at 25 °C) 50 000 h • Backlight dimmable No Control elements Keyboard fonts • Function keys — Number of function keys 6 — Number of function keys with LEDs 0 • Keys with LED No • System keys No • Numeric keyboard Yes; Onscreen keyboard • alphanumeric keyboard Yes; Onscreen keyboard • Design as touch screen Yes Installation type/mounting Mounting position vertical Rack mounting Mounting in portrait format possible Yes Mounting in landscape format possible Yes maximum permissible angle of inclination without external vertiliation Supply voltage Type of supply voltage Type of supply voltage Type of supply voltage Type fange, upper limit (DC) permissible range, upper limit (DC) permissible range, upper limit (DC) permissible range, upper limit (DC) Input current	 Horizontal image resolution 	320 pixel
MTBF backlight dimmable Backlight dimmable No Control elements Keyboard fonts Function keys No No Keys with LED No Keys with LED No System keys No No Noscreen keyboard alphanumeric keyboard belign as touch screen Design as touch screen Pesign as touch screen Rack mounting Mounting position Rack mounting Mounting in portrait format possible Mounting in landscape format possible maximum permissible angle of inclination without external ventilation Supply voltage Type of supply voltage Type of supply voltage Tange, upper limit (DC) permissible range, upper limit (DC) permissible range, upper limit (DC) permissible range, upper limit (DC) Input current	Vertical image resolution	240 pixel
Backlight dirmable Control elements Keyboard fonts Function keys - Number of function keys - Number of function keys with LEDs Keys with LED Keys wi	Backlighting	
Keyboard fonts • Function keys — Number of function keys 6 — Number of function keys with LEDs 0 • Keys with LED No • System keys No • Numeric keyboard Yes; Onscreen keyboard • alphanumeric keyboard Yes; Onscreen keyboard Touch operation • Design as touch screen Yes Installation type/mounting Mounting position vertical Rack mounting Wall mounting/direct mounting No Mounting in portrait format possible Yes maximum permissible angle of inclination without external ventilation Supply voltage Type of supply voltage Rate value (DC) permissible range, lower limit (DC) permissible range, upper limit (DC) Input current	 MTBF backlighting (at 25 °C) 	50 000 h
Function keys	Backlight dimmable	No
Function keys Number of function keys Number of function keys with LEDs Keys with LED No No No Numeric keyboard Installation type/mounting Mounting position Rack mounting No Mounting in portrait format possible Mounting in landscape format possible maximum permissible angle of inclination without external ventilation Supply voltage Type of supply voltage Rated value (DC) permissible range, lower limit (DC) permissible range, upper limit (DC) permissible range, upper limit (DC) permissible range, upper limit (DC) Insulation type/mounting Ro No Vertical No Vertical No No No No No No Mounting in landscape format possible Yes maximum permissible angle of inclination without external ventilation Supply voltage Type of supply voltage Rated value (DC) permissible range, upper limit (DC) Input current	Control elements	
— Number of function keys — Number of function keys with LEDs • Keys with LED • System keys • No • Numeric keyboard • alphanumeric keyboard • Design as touch screen • Design as touch screen Mounting position Rack mounting Mounting in portrait format possible Mounting in Inandscape format possible maximum permissible angle of inclination without external ventilation Supply voltage Type of supply voltage Rate value (DC) permissible range, lower limit (DC) Input current No	Keyboard fonts	
Number of function keys with LEDs Keys with LED No System keys No Numeric keyboard Alphanumeric keyboard Design as touch screen Installation type/mounting Mounting position Rack mounting Mounting in portrait format possible maximum permissible angle of inclination without external ventilation Supply voltage Type of supply voltage Rated value (DC) Rated value (DC) permissible range, lower limit (DC) Insulation type with LEDs No No No Ves; Onscreen keyboard Yes; Onscreen keyboard Yes No Ves Mounting position Vertical No	 Function keys 	
Keys with LED System keys No Numeric keyboard Yes; Onscreen keyboard alphanumeric keyboard Yes; Onscreen keyboard Touch operation Design as touch screen Yes Installation type/mounting Mounting position No Wall mounting/direct mounting No Mounting in portrait format possible Mounting in landscape format possible maximum permissible angle of inclination without external ventilation Supply voltage Type of supply voltage Type of supply voltage Rated value (DC) permissible range, lower limit (DC) Input current No Input current	 Number of function keys 	6
System keys Numeric keyboard Numeric keyboard Alphanumeric keyboard Pes; Onscreen keyboard Touch operation Design as touch screen Pes Installation type/mounting Mounting position Rack mounting No Wall mounting/direct mounting No Mounting in portrait format possible Mounting in landscape format possible Pes maximum permissible angle of inclination without external ventilation Supply voltage Type of supply voltage Rated value (DC) Permissible range, lower limit (DC) Permissible range, upper limit (DC) Permissible range, upper limit (DC) Input current Ves; Onscreen keyboard Ves	 Number of function keys with LEDs 	0
Numeric keyboard alphanumeric keyboard Yes; Onscreen keyboard Touch operation Design as touch screen Yes Installation type/mounting Mounting position Rack mounting No Wall mounting/direct mounting Nounting in portrait format possible Mounting in landscape format possible Yes maximum permissible angle of inclination without external ventilation Supply voltage Type of supply voltage Rated value (DC) permissible range, lower limit (DC) permissible range, upper limit (DC) Input current Yes Onscreen keyboard Yes; Onscreen keyboard Yes No Ser; Onscreen keyboard Yes No Ser; Onscreen keyboard Yes No Ser; Onscreen keyboard Yes Installation Yes No Do Do Do Rated value (DC) Permissible range, lower limit (DC) Permissible range, upper li	 Keys with LED 	No
alphanumeric keyboard Touch operation Design as touch screen Pes Installation type/mounting Mounting position Rack mounting No Wall mounting/direct mounting Mounting in portrait format possible Mounting in landscape format possible maximum permissible angle of inclination without external ventilation Supply voltage Type of supply voltage Rated value (DC) permissible range, lower limit (DC) permissible range, upper limit (DC) Input current Yes No Vertical No No No No So So So So So So	System keys	No
Touch operation	•	
Design as touch screen Installation type/mounting Mounting position Rack mounting No Wall mounting/direct mounting No Mounting in portrait format possible Mounting in landscape format possible Mounting in landscape format possible Maximum permissible angle of inclination without external ventilation Supply voltage Type of supply voltage Type of supply voltage Rated value (DC) permissible range, lower limit (DC) 19.2 V permissible range, upper limit (DC) 28.8 V Input current	alphanumeric keyboard	Yes; Onscreen keyboard
Installation type/mounting Mounting position Rack mounting No Wall mounting/direct mounting Mounting in portrait format possible Yes Mounting in landscape format possible maximum permissible angle of inclination without external ventilation Supply voltage Type of supply voltage Rated value (DC) permissible range, lower limit (DC) permissible range, upper limit (DC) Input current	Touch operation	
Mounting position Rack mounting No Wall mounting/direct mounting No Mounting in portrait format possible Mounting in landscape format possible Maximum permissible angle of inclination without external ventilation Supply voltage Type of supply voltage Rated value (DC) Permissible range, lower limit (DC) permissible range, upper limit (DC) Input current	Design as touch screen	Yes
Rack mounting No Wall mounting/direct mounting No Mounting in portrait format possible Yes Mounting in landscape format possible Yes maximum permissible angle of inclination without external ventilation 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	Installation type/mounting	
Wall mounting/direct mounting Mounting in portrait format possible Mounting in landscape format possible Maximum permissible angle of inclination without external ventilation Supply voltage Type of supply voltage Rated value (DC) Permissible range, lower limit (DC) permissible range, upper limit (DC) Input current	Mounting position	vertical
Mounting in portrait format possible Mounting in landscape format possible Maximum permissible angle of inclination without external ventilation Supply voltage Type of supply voltage Rated value (DC) permissible range, lower limit (DC) permissible range, upper limit (DC) Input current Yes Yes DC 24 V 28.8 V	Rack mounting	No
Mounting in landscape format possible maximum permissible angle of inclination without external ventilation Supply voltage Type of supply voltage Rated value (DC) permissible range, lower limit (DC) permissible range, upper limit (DC) Input current Yes DC 24 V Permissible range, lower limit (DC) 28.8 V	Wall mounting/direct mounting	No
maximum permissible angle of inclination without external ventilation Supply voltage Type of supply voltage Rated value (DC) permissible range, lower limit (DC) permissible range, upper limit (DC)	Mounting in portrait format possible	Yes
ventilation Supply voltage Type of supply voltage Rated value (DC) permissible range, lower limit (DC) permissible range, upper limit (DC) permissible range, upper limit (DC) permissible range, upper limit (DC)	Mounting in landscape format possible	Yes
Type of supply voltage Rated value (DC) permissible range, lower limit (DC) permissible range, upper limit (DC) 28.8 V Input current		35°
Rated value (DC) permissible range, lower limit (DC) permissible range, upper limit (DC) 24 V permissible range, upper limit (DC) 28.8 V Input current	Supply voltage	
permissible range, lower limit (DC) permissible range, upper limit (DC) Input current	Type of supply voltage	DC
permissible range, upper limit (DC) Input current 28.8 V	Rated value (DC)	24 V
Input current	permissible range, lower limit (DC)	19.2 V
	permissible range, upper limit (DC)	28.8 V
Current consumption (rated value) 0.35 A	Input current	
	Current consumption (rated value)	0.35 A

0	0.5.42
Starting current inrush I²t	0.5 A ² ·s
Power	0.W
Active power input, typ.	9 W
Processor	DIOC CO. L. Y.
Processor type	RISC 32 bit
Memory	V
Flash	Yes
RAM Memory available for user data	Yes
Memory available for user data Type of output	1 Mbyte
Acoustics	Sound signal
Buzzer	Yes
• Speaker	No
Time of day	INO
Clock	
Hardware clock (real-time)	No
Software clock	Yes
retentive	No
synchronizable	Yes
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
Industrial Ethernet status LED Protocols	2
	Yes
Protocols	
Protocols PROFINET	Yes
PROFINET Supports protocol for PROFINET IO	Yes No
Protocols PROFINET Supports protocol for PROFINET IO IRT PROFIBUS EtherNet/IP	Yes No No No Yes
Protocols PROFINET Supports protocol for PROFINET IO IRT PROFIBUS EtherNet/IP MPI	Yes No No No
PROFINET Supports protocol for PROFINET IO IRT PROFIBUS EtherNet/IP MPI Protocols (Ethernet)	Yes No No No Yes No
Protocols PROFINET Supports protocol for PROFINET IO IRT PROFIBUS EtherNet/IP MPI Protocols (Ethernet) • TCP/IP	Yes No No No Yes No Yes
Protocols PROFINET Supports protocol for PROFINET IO IRT PROFIBUS EtherNet/IP MPI Protocols (Ethernet) • TCP/IP • DHCP	Yes No No No Yes No Yes Yes
Protocols PROFINET Supports protocol for PROFINET IO IRT PROFIBUS EtherNet/IP MPI Protocols (Ethernet) • TCP/IP • DHCP • SNMP	Yes No No No Yes No Yes Yes Yes Yes
Protocols PROFINET Supports protocol for PROFINET IO IRT PROFIBUS EtherNet/IP MPI Protocols (Ethernet) • TCP/IP • DHCP • SNMP • DCP	Yes No No No Yes Yes Yes Yes Yes Yes
Protocols PROFINET Supports protocol for PROFINET IO IRT PROFIBUS EtherNet/IP MPI Protocols (Ethernet) • TCP/IP • DHCP • SNMP • DCP • LLDP	Yes No No No Yes No Yes Yes Yes Yes
Protocols PROFINET Supports protocol for PROFINET IO IRT PROFIBUS EtherNet/IP MPI Protocols (Ethernet) • TCP/IP • DHCP • SNMP • DCP • LLDP WEB characteristics	Yes No No No Yes No Yes Yes Yes Yes Yes Yes Yes
Protocols PROFINET Supports protocol for PROFINET IO IRT PROFIBUS EtherNet/IP MPI Protocols (Ethernet) • TCP/IP • DHCP • SNMP • DCP • LLDP WEB characteristics • HTTP	Yes No No No Yes No Yes Yes Yes Yes Yes Yes Yes
Protocols PROFINET Supports protocol for PROFINET IO IRT PROFIBUS EtherNet/IP MPI Protocols (Ethernet) • TCP/IP • DHCP • SNMP • DCP • LLDP WEB characteristics • HTTP • HTML	Yes No No No Yes No Yes Yes Yes Yes Yes Yes Yes
Protocols PROFINET Supports protocol for PROFINET IO IRT PROFIBUS EtherNet/IP MPI Protocols (Ethernet) • TCP/IP • DHCP • SNMP • DCP • LLDP WEB characteristics • HTTP • HTML Further protocols	Yes No No No Yes No Yes Yes Yes Yes Yes Yes Yes Yos Yes
Protocols PROFINET Supports protocol for PROFINET IO IRT PROFIBUS EtherNet/IP MPI Protocols (Ethernet) • TCP/IP • DHCP • SNMP • DCP • LLDP WEB characteristics • HTTP • HTML Further protocols • CAN	Yes No No No Yes No Yes Yes Yes Yes Yes Yes Yos No No No
Protocols PROFINET Supports protocol for PROFINET IO IRT PROFIBUS EtherNet/IP MPI Protocols (Ethernet) • TCP/IP • DHCP • SNMP • DCP • LLDP WEB characteristics • HTTP • HTML Further protocols • CAN • MODBUS	Yes No No No Yes No Yes Yes Yes Yes Yes Yes Yes Yos Yes
Protocols PROFINET Supports protocol for PROFINET IO IRT PROFIBUS EtherNet/IP MPI Protocols (Ethernet) • TCP/IP • DHCP • SNMP • DCP • LLDP WEB characteristics • HTTP • HTML Further protocols • CAN • MODBUS Interrupts/diagnostics/status information	Yes No No No Yes No Yes Yes Yes Yes Yes Yes Yos No No No
Protocols PROFINET Supports protocol for PROFINET IO IRT PROFIBUS EtherNet/IP MPI Protocols (Ethernet) • TCP/IP • DHCP • SNMP • DCP • LLDP WEB characteristics • HTTP • HTML Further protocols • CAN • MODBUS Interrupts/diagnostics/status information Diagnoses	Yes No No No Yes No Yes
PROFINET Supports protocol for PROFINET IO IRT PROFIBUS EtherNet/IP MPI Protocols (Ethernet) • TCP/IP • DHCP • SNMP • DCP • LLDP WEB characteristics • HTTP • HTML Further protocols • CAN • MODBUS Interrupts/diagnostics/status information Diagnoses • Diagnostic information readable	Yes No No No Yes No Yes Yes Yes Yes Yes Yes Yos No No No
Protocols PROFINET Supports protocol for PROFINET IO IRT PROFIBUS EtherNet/IP MPI Protocols (Ethernet) • TCP/IP • DHCP • SNMP • DCP • LLDP WEB characteristics • HTTP • HTML Further protocols • CAN • MODBUS Interrupts/diagnostics/status information Diagnoses • Diagnostic information readable Degree and class of protection	Yes No No No Yes No Yes
Protocols PROFINET Supports protocol for PROFINET IO IRT PROFIBUS EtherNet/IP MPI Protocols (Ethernet) • TCP/IP • DHCP • SNMP • DCP • LLDP WEB characteristics • HTTP • HTML Further protocols • CAN • MODBUS Interrupts/diagnostics/status information Diagnoses • Diagnostic information readable Degree and class of protection IP (at the front)	Yes No No No Yes No Yes Yes Yes Yes Yes Yes Yes No
PROFINET Supports protocol for PROFINET IO IRT PROFIBUS EtherNet/IP MPI Protocols (Ethernet) • TCP/IP • DHCP • SNMP • DCP • LLDP WEB characteristics • HTTP • HTML Further protocols • CAN • MODBUS Interrupts/diagnostics/status information Diagnoses • Diagnostic information readable Degree and class of protection IP (at the front) IP (rear)	Yes No No No Yes No Yes
Protocols PROFINET Supports protocol for PROFINET IO IRT PROFIBUS EtherNet/IP MPI Protocols (Ethernet) • TCP/IP • DHCP • SNMP • DCP • LLDP WEB characteristics • HTTP • HTML Further protocols • CAN • MODBUS Interrupts/diagnostics/status information Diagnoses • Diagnostic information readable Degree and class of protection IP (at the front) IP (rear) NEMA (front)	Yes No No Yes No Yes Yes Yes Yes Yes Yes No No Yes; Modicon (MODBUS TCP/IP) No IP65 IP20
PROFINET Supports protocol for PROFINET IO IRT PROFIBUS EtherNet/IP MPI Protocols (Ethernet) • TCP/IP • DHCP • SNMP • DCP • LLDP WEB characteristics • HTTP • HTML Further protocols • CAN • MODBUS Interrupts/diagnostics/status information Diagnoses • Diagnostic information readable Degree and class of protection IP (at the front) IP (rear)	Yes No No No Yes No Yes Yes Yes Yes Yes Yes Yes No

Ambient conditions	
Suited for indoor use	Yes
Suited for outdoor use	No
Ambient temperature during operation	
Operation (vertical installation)	
— For vertical installation, min.	-25 °C
— For vertical installation, max.	60 °C
Operation (max. tilt angle)	
— At maximum tilt angle, min.	-25 °C
— At maximum tilt angle, max.	40 °C
Ambient temperature during storage/transportation	
• min.	-30 °C
• max.	60 °C
Altitude during operation relating to sea level	
Installation altitude above sea level, max.	5 000 m
Ambient air temperature-barometric pressure-altitude	Tmin Tmax at 1 140 hPa 795 hPa (-1 000 m +2 000 m) // Tmin (Tmax - 10 K) at 795 hPa 658 hPa (+2 000 m +3 500 m) // Tmin (Tmax -20 K) at 658 hPa 540 hPa (+3 500 m +5 000 m)
Relative humidity	
 With condensation, tested in accordance with IEC 60068- 2-38, max. 	100 %; RH incl. condensation/frost (no commissioning under condensation conditions)
Resistance	
Coolants and lubricants	
 Resistant to commercially available coolants and lubricants 	Yes; Incl. diesel and oil droplets in the air
Use in stationary industrial systems	
 to biologically active substances according to EN 60721-3-3 	Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request
 to chemically active substances according to EN 60721-3-3 	Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *
 to mechanically active substances according to EN 60721-3-3 	Yes; Class 3S4 incl. sand, dust, *
Use on ships/at sea	
 to biologically active substances according to EN 60721-3-6 	Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request
 to chemically active substances according to EN 60721-3-6 	Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *
 to mechanically active substances according to EN 60721-3-6 	Yes; Class 6S3 incl. sand, dust; *
Remark	
 Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04 	* The supplied plug covers must remain in place over the unused interfaces during operation!
Conformal coating	
Coatings for printed circuit board assemblies acc. to EN	Yes; Class 2 for high reliability
61086	. 55, 5.866 E for migrironaumity
 Protection against fouling acc. to EN 60664-3 	Yes; Type 1 protection
 Military testing according to MIL-I-46058C, Amendment 7 	Yes; Discoloration of coating possible during service life
 Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC- CC-830A 	Yes; Conformal coating, Class A
Operating systems	
proprietary	Yes
pre-installed operating system	
Windows CE	No
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)	Yes; via integrated WinCC Basic (TIA Portal)
STEP 7 Professional (TIA Portal)	Yes; via integrated WinCC Basic (TIA Portal)
WinCC flexible Compact	Yes
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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
Applications/options	none
Web browser	No
SIMATIC WinCC Sm@rtServer	No
Task planner	
• time-controlled	No
• task-controlled	Yes
Help system	
Number of characters per info text	320
Message system	
Number of alarm classes	32
Bit messages	Yes
 Number of bit messages 	200
Analog messages	Yes
 Number of analog messages 	15
System messages HMI	Yes
 System event, more (SIMATIC S7, SINUMERIK, SIMOTION,) 	No
 Number of characters per message 	80
 Number of process values per message 	8
Message indicator	Yes
Message buffer	Ring buffer (n x 256 entries), non-retentive
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
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
1 1 1 1 1 1 1 1	
Image number in the PLC	Yes
Image objects	
Image objects • Number of objects per image	30
Image objects	

 Graphic I/O fields (graphics list) Symbolic I/O fields (text list) Date/time fields Switches Yes 	
Date/time fields Yes	
• Switches Yes	
• Buttons Yes	
Graphic display Yes	
• Icons Yes	
• Geometric objects Yes	
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	
Lists	
 Number of text lists per project Number of entries per text list 30 	
·	
Number of entries per graphics list	
Archiving	
Number of archives per device	
Security	
Number of user groups 50	
Number of user rights	
• Number of users 50	
Password export/import No	
SIMATIC Logon No	
Character sets	
	nerican (English)
— US English Yes	
Transfer (upload/download)	
MPI/PROFIBUS DP No	
• USB No	
• Ethernet Yes	
• using external storage medium No	
Process coupling	
• S7-1200 Yes	
• S7-1500 Yes	
• S7-200 Yes	
• S7-300/400 Yes	
• LOGO! Yes; W	/ith restrictions with regard to address area and data types
http://s	upport.automation.siemens.com/WW/view/en/56348902
• WinAC Yes	
• SINUMERIK No	
011.40.71.01.1	
• SIMOTION No	
SIMOTIONAllen Bradley (EtherNet/IP)Yes	
Allen Bradley (EtherNet/IP) Yes	
Allen Bradley (EtherNet/IP)Allen Bradley (DF1)No	
 Allen Bradley (EtherNet/IP) Allen Bradley (DF1) Mitsubishi (MC TCP/IP) Mitsubishi (FX) 	
 Allen Bradley (EtherNet/IP) Allen Bradley (DF1) Mitsubishi (MC TCP/IP) Mitsubishi (FX) 	

 Modicon (Modbus) 	No
Service tools/configuration aids	
 Backup/Restore manually 	Yes
 Backup/Restore automatically 	No
 Simulation 	Yes
Device switchover	Yes
Peripherals/Options	
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	214 mm
Height of housing front	158 mm
Mounting cutout, width	197 mm
Mounting cutout, height	141 mm
Overall depth	44 mm
Weights	
Weight (without packaging)	1.07 kg
Weight (with packaging)	1.32 kg

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