SIEMENS

Data sheet

6AG1123-2JB03-2AX0

SIPLUS HMI KTP900 Basic Color PN based on 6AV2123-2JB03-0AX0 with conformal coating, -20...+50 $^{\circ}$ C, 9" TFT display, 65536 colors PROFINET interface



Figure similar

General information	
Product type designation	KTP900 Basic color PN
Display	
Design of display	TFT widescreen display, LED backlighting
Screen diagonal	9 in
Display width	198 mm
Display height	111.7 mm
Number of colors	65 536
Resolution (pixels)	
 Horizontal image resolution 	800 pixel
Vertical image resolution	480 pixel
Backlighting	
 MTBF backlighting (at 25 °C) 	20 000 h
 Backlight dimmable 	Yes
Control elements	
Keyboard fonts	
 Function keys 	
 Number of function keys 	8
 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; Analog-resistive
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	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)	230 mA
Starting current inrush I²t	0.2 A ² ·s
Power	

Active power input, typ.	5.5 W
Processor	0.0 11
Processor type	ARM
Memory	ALTIVI
Flash	Yes
RAM	Yes
Memory available for user data	10 Mbyte
Type of output	
Acoustics	
Buzzer	Yes
Speaker	No
Time of day	
Clock	
Hardware clock (real-time)	Yes
 Software clock 	Yes
• retentive	Yes
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 4. Un to 40 OB
Number of USB interfaces	1; Up to 16 GB
Number of 20 mA interfaces (TTY) Number of parallel interfaces	0
Number of parallel interfaces Number of other interfaces	0
Number of SD card slots	0
With software interfaces	No
Industrial Ethernet	
Industrial Ethernet status LED	2
Protocols	
	Yes
Protocols	Yes No
Protocols PROFINET	
PROFINET Supports protocol for PROFINET IO IRT PROFIBUS	No No No
PROFINET Supports protocol for PROFINET IO IRT PROFIBUS EtherNet/IP	No No No Yes
PROFINET Supports protocol for PROFINET IO IRT PROFIBUS EtherNet/IP MPI	No No No
PROFINET Supports protocol for PROFINET IO IRT PROFIBUS EtherNet/IP MPI Protocols (Ethernet)	No No No Yes No
PROFINET Supports protocol for PROFINET IO IRT PROFIBUS EtherNet/IP MPI Protocols (Ethernet) • TCP/IP	No No No Yes No Yes
PROFINET Supports protocol for PROFINET IO IRT PROFIBUS EtherNet/IP MPI Protocols (Ethernet) • TCP/IP • DHCP	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	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	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	No No No Yes 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	No No No Yes 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 WEB characteristics	No No No Yes No Yes Yes Yes Yes Yes Yes Yes
PROFINET Supports protocol for PROFINET IO IRT PROFIBUS EtherNet/IP MPI Protocols (Ethernet) • TCP/IP • DHCP • SNMP • DCP • LLDP WEB characteristics • HTTP	No No No Yes No Yes 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 • CAN	No No No Yes No Yes Yes Yes Yes Yes Yes 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	No No No Yes No Yes Yes Yes Yes Yes Yes You 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	No No No Yes No 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	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	No No No Yes No 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	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 EMC Emission of radio interference acc. to EN 55 011	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 EMC Emission of radio interference acc. to EN 55 011 • Limit class A, for use in industrial areas	No No Yes No Yes Yes Yes Yes Yes Yes Yes Yes No No No No No No Yes; Modicon (MODBUS TCP/IP)
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 EMC Emission of radio interference acc. to EN 55 011 • Limit class A, for use in industrial areas • Limit class B, for use in residential areas	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 EMC Emission of radio interference acc. to EN 55 011 • Limit class A, for use in industrial areas • Limit class of protection	No No No Yes No Yes Yes Yes Yes Yes Yes Yes No No No No Yes; Modicon (MODBUS TCP/IP) 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 EMC Emission of radio interference acc. to EN 55 011 • Limit class A, for use in industrial areas • Limit class of protection IP (at the front)	No No No Yes No Yes Yes Yes Yes Yes Yes Yes No No No No No Yes; Modicon (MODBUS TCP/IP) 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 EMC Emission of radio interference acc. to EN 55 011 • Limit class A, for use in industrial areas • Limit class B, for use in residential areas Degree and class of protection IP (at the front) IP (at the front) IP (rear)	No No No Yes No Yes Yes Yes Yes Yes Yes Yes No No No No No Yes; Modicon (MODBUS TCP/IP) 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 EMC Emission of radio interference acc. to EN 55 011 • Limit class A, for use in industrial areas • Limit class of protection IP (at the front)	No No No Yes No Yes Yes Yes Yes Yes Yes Yes No No No No No Yes; Modicon (MODBUS TCP/IP) Yes No

• Enclosure Type 4x at the front	Yes
Ambient conditions	
Suited for indoor use	Yes
Suited for outdoor use	No
Ambient temperature during operation	
Operation (vertical installation)	
 For vertical installation, min. 	-20 °C
 For vertical installation, max. 	50 °C
Operation (max. tilt angle)	
At maximum tilt angle, min.	-20 °C
— At maximum tilt angle, max.	40 °C
Operation (vertical installation, portrait format)	00.00
— For vertical installation, min.	-20 °C
— For vertical installation, max.	40 °C
Operation (max. tilt angle, portrait format) — At maximum tilt angle, min.	-20 °C
At maximum tilt angle, min. At maximum tilt angle, max.	35 °C
Ambient temperature during storage/transportation	33 0
• min.	-20 °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	Yes; Incl. diesel and oil droplets in the air
and lubricants Use in stationary industrial systems	
— to biologically active substances according to	Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of
EN 60721-3-3	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; *
Usage in industrial process technology	
 Against chemically active substances acc. to EN 60654-4 	Yes; Class 3 (excluding trichlorethylene)
 Environmental conditions for process, measuring and control systems acc. to ANSI/ISA- 71.04 	Yes; Level GX group A/B (excluding trichlorethylene; harmful gas concentrations up to the limits of EN 60721-3-3 class 3C4 permissible); level LC3 (salt spray) and level LB3 (oil)
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 61086 	Yes; Class 2 for high reliability
 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

pro installed operating system	
pre-installed operating system • Windows CE	No
vindows CE configuration / header	INU
	V
Message indicator	Yes
Alarm system (incl. buffer and acknowledgment)	Yes Yes
Process value display (output) Process value default (input) possible	Yes
Recipe management	Yes
Configuration software	Tes
STEP 7 Basic (TIA Portal)	Yes; via integrated WinCC Basic (TIA Portal)
STEP 7 Professional (TIA Portal)	Yes; via integrated WinCC Basic (TIA Fortal)
WinCC flexible Compact	No
WinCC flexible Compact 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	10
Number of online/runtime languages Project languages	10
	32
Languages per project Functionality under WinCC (TIA Bortel)	02
Functionality under WinCC (TIA Portal)	V
Libraries	Yes
Number of Visual Basic Scripts	No
Task planner	Yes
• time-controlled	No
• task-controlled	Yes
Help system	Yes
Number of characters per into text	500
Number of characters per info text	
Message system	
Message system • Number of alarm classes	32
Message system • Number of alarm classes • Bit messages	32
Message system ■ Number of alarm classes ■ Bit messages — Number of bit messages	
Message system • Number of alarm classes • Bit messages — Number of bit messages • Analog messages	32 1 000
Message system • Number of alarm classes • Bit messages — Number of bit messages • Analog messages — Number of analog messages	32 1 000 25
Message system Number of alarm classes Bit messages — Number of bit messages Analog messages — Number of analog messages S7 alarm number procedure	32 1 000 25 No
Message system Number of alarm classes Bit messages — Number of bit messages Analog messages — Number of analog messages S7 alarm number procedure System messages HMI	32 1 000 25 No Yes
Message system Number of alarm classes Bit messages — Number of bit messages Analog messages — Number of analog messages S7 alarm number procedure	32 1 000 25 No
Message system Number of alarm classes Bit messages — Number of bit messages Analog messages — Number of analog messages S7 alarm number procedure System messages HMI System event, more (SIMATIC S7, SINUMERIK,	32 1 000 25 No Yes
Message system Number of alarm classes Bit messages — Number of bit messages Analog messages — Number of analog messages S7 alarm number procedure System messages HMI System event, more (SIMATIC S7, SINUMERIK, SIMOTION,)	32 1 000 25 No Yes Yes; System message buffer of the SIMATIC S7-1200 and S7-1500
Number of alarm classes Bit messages — Number of bit messages — Number of bit messages • Analog messages — Number of analog messages • S7 alarm number procedure • System messages HMI • System event, more (SIMATIC S7, SINUMERIK, SIMOTION,) • Number of characters per message	32 1 000 25 No Yes Yes; System message buffer of the SIMATIC S7-1200 and S7-1500 80
Number of alarm classes Bit messages — Number of bit messages — Analog messages — Number of analog messages — Number of analog messages S7 alarm number procedure System messages HMI System event, more (SIMATIC S7, SINUMERIK, SIMOTION,) Number of characters per message Number of process values per message	32 1 000 25 No Yes Yes; System message buffer of the SIMATIC S7-1200 and S7-1500 80 8
Message system Number of alarm classes Bit messages — Number of bit messages Analog messages — Number of analog messages S7 alarm number procedure System messages HMI System event, more (SIMATIC S7, SINUMERIK, SIMOTION,) Number of characters per message Number of process values per message Acknowledgment groups	32 1 000 25 No Yes Yes; System message buffer of the SIMATIC S7-1200 and S7-1500 80 8 Yes
Message system Number of alarm classes Bit messages — Number of bit messages Analog messages — Number of analog messages S7 alarm number procedure System messages HMI System event, more (SIMATIC S7, SINUMERIK, SIMOTION,) Number of characters per message Number of process values per message Acknowledgment groups Message indicator	32 1 000 25 No Yes Yes; System message buffer of the SIMATIC S7-1200 and S7-1500 80 8 Yes Yes
Message system Number of alarm classes Bit messages — Number of bit messages Analog messages — Number of analog messages S7 alarm number procedure System messages HMI System event, more (SIMATIC S7, SINUMERIK, SIMOTION,) Number of characters per message Number of process values per message Acknowledgment groups Message indicator Message buffer	32 1 000 25 No Yes Yes; System message buffer of the SIMATIC S7-1200 and S7-1500 80 8 Yes Yes Yes Yes
Message system Number of alarm classes Bit messages — Number of bit messages Analog messages — Number of analog messages S7 alarm number procedure System messages HMI System event, more (SIMATIC S7, SINUMERIK, SIMOTION,) Number of characters per message Number of process values per message Acknowledgment groups Message indicator Message buffer — Number of entries	32 1 000 25 No Yes Yes; System message buffer of the SIMATIC S7-1200 and S7-1500 80 8 Yes Yes Yes Yes Yes Yes Yes
Number of alarm classes Bit messages — Number of bit messages — Number of analog messages — Number of analog messages — System number procedure System messages HMI System event, more (SIMATIC S7, SINUMERIK, SIMOTION,) Number of characters per message Number of process values per message Acknowledgment groups Message indicator Message buffer — Number of entries — Circulating buffer	32 1 000 25 No Yes Yes; System message buffer of the SIMATIC S7-1200 and S7-1500 80 8 Yes
Number of alarm classes Number of alarm classes Bit messages — Number of bit messages Analog messages — Number of analog messages S7 alarm number procedure System messages HMI System event, more (SIMATIC S7, SINUMERIK, SIMOTION,) Number of characters per message Number of process values per message Acknowledgment groups Message indicator Message buffer — Number of entries — Circulating buffer — retentive	32 1 000 25 No Yes Yes; System message buffer of the SIMATIC S7-1200 and S7-1500 80 8 Yes
Number of alarm classes Bit messages — Number of bit messages — Number of analog messages • Analog messages — Number of analog messages • S7 alarm number procedure • System messages HMI • System event, more (SIMATIC S7, SINUMERIK, SIMOTION,) • Number of characters per message • Number of process values per message • Acknowledgment groups • Message indicator • Message buffer — Number of entries — Circulating buffer — retentive — maintenance-free	32 1 000 25 No Yes Yes; System message buffer of the SIMATIC S7-1200 and S7-1500 80 8 Yes
Message system Number of alarm classes Bit messages — Number of bit messages Analog messages — Number of analog messages S7 alarm number procedure System messages HMI System event, more (SIMATIC S7, SINUMERIK, SIMOTION,) Number of characters per message Number of process values per message Acknowledgment groups Message indicator Message buffer — Number of entries — Circulating buffer — retentive — maintenance-free Recipe management	32 1 000 25 No Yes Yes; System message buffer of the SIMATIC S7-1200 and S7-1500 80 8 Yes
Message system Number of alarm classes Bit messages — Number of bit messages Analog messages — Number of analog messages S7 alarm number procedure System messages HMI System event, more (SIMATIC S7, SINUMERIK, SIMOTION,) Number of characters per message Number of process values per message Acknowledgment groups Message indicator Message buffer — Number of entries — Circulating buffer — retentive — maintenance-free Recipe management Number of recipes Data records per recipe Entries per data record	32 1 000 25 No Yes Yes; System message buffer of the SIMATIC S7-1200 and S7-1500 80 8 Yes
Message system Number of alarm classes Bit messages — Number of bit messages Analog messages — Number of analog messages S7 alarm number procedure System messages HMI System event, more (SIMATIC S7, SINUMERIK, SIMOTION,) Number of characters per message Number of process values per message Acknowledgment groups Message indicator Message buffer — Number of entries — Circulating buffer — retentive — maintenance-free Recipe management Number of recipes Data records per recipe Entries per data record Size of internal recipe memory	32 1 000 25 No Yes Yes; System message buffer of the SIMATIC S7-1200 and S7-1500 80 8 Yes
Message system Number of alarm classes Bit messages — Number of bit messages Analog messages — Number of analog messages S7 alarm number procedure System messages HMI System event, more (SIMATIC S7, SINUMERIK, SIMOTION,) Number of characters per message Number of process values per message Acknowledgment groups Message indicator Message buffer — Number of entries — Circulating buffer — retentive — maintenance-free Recipe management Number of recipes Data records per recipe Entries per data record Size of internal recipe memory Recipe memory expandable	32 1 000 25 No Yes Yes; System message buffer of the SIMATIC S7-1200 and S7-1500 80 8 Yes
Number of alarm classes Number of bit messages Number of bit messages Analog messages Number of analog messages S7 alarm number procedure System messages HMI System event, more (SIMATIC S7, SINUMERIK, SIMOTION,) Number of characters per message Number of process values per message Acknowledgment groups Message indicator Message buffer Number of entries Circulating buffer retentive maintenance-free Recipe management Number of recipes Data records per recipe Entries per data record Size of internal recipe memory Recipe memory expandable Variables	32 1 000 25 No Yes Yes; System message buffer of the SIMATIC S7-1200 and S7-1500 80 8 Yes
Number of alarm classes Bit messages Number of bit messages Analog messages Number of analog messages S7 alarm number procedure System messages HMI System event, more (SIMATIC S7, SINUMERIK, SIMOTION,) Number of characters per message Number of process values per message Acknowledgment groups Message indicator Message buffer Number of entries Circulating buffer retentive maintenance-free Recipe management Number of recipes Data records per recipe Entries per data record Size of internal recipe memory Recipe memory expandable Variables Number of variables per device	32 1 000 25 No Yes Yes; System message buffer of the SIMATIC S7-1200 and S7-1500 80 8 Yes
Number of alarm classes Bit messages — Number of bit messages — Number of analog messages — Number of analog messages — Sy alarm number procedure System messages HMI System event, more (SIMATIC S7, SINUMERIK, SIMOTION,) Number of characters per message Number of process values per message Acknowledgment groups Message indicator Message buffer — Number of entries — Circulating buffer — retentive — maintenance-free Recipe management Number of recipes Data records per recipe Entries per data record Size of internal recipe memory Recipe memory expandable Variables Number of variables per device Number of variables per screen	32 1 000 25 No Yes Yes; System message buffer of the SIMATIC S7-1200 and S7-1500 80 8 Yes
Number of alarm classes Bit messages — Number of bit messages — Number of analog messages — Number of analog messages — Number of analog messages S7 alarm number procedure System messages HMI System event, more (SIMATIC S7, SINUMERIK, SIMOTION,) Number of characters per message Number of process values per message Acknowledgment groups Message indicator Message buffer — Number of entries — Circulating buffer — retentive — maintenance-free Recipe management Number of recipes Data records per recipe Entries per data record Size of internal recipe memory Recipe memory expandable Variables Number of variables per device Number of variables per screen Limit values	32 1 000 25 No Yes Yes; System message buffer of the SIMATIC S7-1200 and S7-1500 80 8 Yes
Number of alarm classes Bit messages — Number of bit messages — Number of analog messages — Number of analog messages — Number of analog messages S7 alarm number procedure System messages HMI System event, more (SIMATIC S7, SINUMERIK, SIMOTION,) Number of characters per message Number of process values per message Acknowledgment groups Message indicator Message buffer — Number of entries — Circulating buffer — retentive — maintenance-free Recipe management Number of recipes Data records per recipe Entries per data record Size of internal recipe memory Recipe memory expandable Variables Number of variables per device Number of variables per screen Limit values Multiplexing	32 1 000 25 No Yes Yes; System message buffer of the SIMATIC S7-1200 and S7-1500 80 8 Yes
Number of alarm classes Bit messages — Number of bit messages — Number of analog messages — Number of analog messages — Number of analog messages S7 alarm number procedure System messages HMI System event, more (SIMATIC S7, SINUMERIK, SIMOTION,) Number of characters per message Number of process values per message Acknowledgment groups Message indicator Message buffer — Number of entries — Circulating buffer — retentive — maintenance-free Recipe management Number of recipes Data records per recipe Entries per data record Size of internal recipe memory Recipe memory expandable Variables Number of variables per device Number of variables per screen Limit values	32 1 000 25 No Yes Yes; System message buffer of the SIMATIC S7-1200 and S7-1500 80 8 Yes

Imagaa	
Images • Number of configurable images	250
Number of configurable imagesPermanent window/default	250 Yes
Global image	Yes
Image selection by PLC	Yes
Image selection by FLC Image number in the PLC	Yes
Image objects	165
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 display	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	150
 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	No
— TXT	Yes
— RDB	No
Security	
 Number of user groups 	50
 Number of user rights 	32
Number of user rightsNumber of users	50
Number of user rightsNumber of usersPassword export/import	50 Yes; Possible via ProSave
Number of user rightsNumber of usersPassword export/importSIMATIC Logon	50
 Number of user rights Number of users Password export/import SIMATIC Logon Character sets	50 Yes; Possible via ProSave
 Number of user rights Number of users Password export/import SIMATIC Logon Character sets Keyboard fonts 	50 Yes; Possible via ProSave No
 Number of user rights Number of users Password export/import SIMATIC Logon Character sets	50 Yes; Possible via ProSave

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
WinAC	Yes
SINUMERIK	No
• SIMOTION	Yes
 Allen Bradley (EtherNet/IP) 	Yes
 Allen Bradley (DF1) 	No
 Mitsubishi (MC TCP/IP) 	Yes
Mitsubishi (FX)	No
OMRON (FINS TCP)	No
 OMRON (LINK/Multilink) 	No
 Modicon (Modbus TCP/IP) 	Yes
Modicon (Modbus)	No
Service tools/configuration aids	
 Backup/Restore manually 	Yes; Possible via ProSave
 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	Yes
Mechanics/material	
Enclosure material (front)	
Plastic	Yes
Aluminum	No
Stainless steel	No
Dimensions	110
Width of the housing front	267 mm
Height of housing front	182 mm
Mounting cutout, width	251 mm
Mounting cutout, wattr	166 mm
Overall depth	55 mm
Weights	
Weight (without packaging)	1 130 g
Weight (with packaging) Weight (with packaging)	1 393 g
Toight (with paolaging)	, 500 g
last modified:	10/8/2021 🗗