## SIEMENS

## Data sheet

## 6AV2143-6DB00-0AA0



SIMATIC HMI, TP400 Basic Keyless; Basic Panel, neutral design, touch operation, 4" TFT display, 65536 colors, PROFINET interface, configurable from WinCC Basic V13/ STEP 7 Basic V13, contains open-source software, which is provided free of charge see enclosed CD

General information	
Product type designation	TP400 Basic Keyless
Display	
Design of display	TFT widescreen display, LED backlighting
Screen diagonal	4.3 in
Display width	95 mm
Display height	53.9 mm
Number of colors	65 536
Resolution (pixels)	
<ul> <li>Horizontal image resolution</li> </ul>	480 pixel
<ul> <li>Vertical image resolution</li> </ul>	272 pixel
Backlighting	
<ul> <li>MTBF backlighting (at 25 °C)</li> </ul>	20 000 h
Backlight dimmable	Yes
Control elements	
Keyboard fonts	
Function keys	No
<ul> <li>— Number of function keys</li> </ul>	0
<ul> <li>— Number of function keys with LEDs</li> </ul>	0
Keys with LED	No
System keys	No
Numeric keyboard	Yes; Onscreen keyboard
alphanumeric keyboard	Yes; Onscreen keyboard
Touch operation	
<ul> <li>Design as touch screen</li> </ul>	Yes; Analog-resistive
<ul> <li>Design as multi-touch screen</li> </ul>	No
<ul> <li>Monitor keyboard</li> </ul>	Yes
Installation type/mounting	
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	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)	125 mA

Starting current inrush I <sup>2</sup> t	0.2 A <sup>2</sup> ·s
Processor	
Processor type	ARM
Memory	
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
Number of USB interfaces	1
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
Protocols	
PROFINET	Yes
Supports protocol for PROFINET IO	No
PROFIBUS	No
EtherNet/IP	Yes
MPI	No
Protocols (Ethernet)	
• TCP/IP	Yes
• DHCP	Yes
• SNMP	Yes
• DCP	Yes
• LLDP	Yes
WEB characteristics	
• HTTP	No
• HTML	No
Further protocols	
• CAN	No
MODBUS	Yes; Modicon (MODBUS TCP/IP)
Interrupts/diagnostics/status information	
Diagnoses	
Diagnostic information readable	No
EMC	
Emission of radio interference acc. to EN 55 011	
<ul> <li>Limit class A, for use in industrial areas</li> </ul>	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 4 at the front	Yes
<ul> <li>Enclosure Type 4 at the front</li> <li>Enclosure Type 4x at the front</li> </ul>	Yes
Standards, approvals, certificates	165
CE mark	Yes
cULus	Yes
RCM (formerly C-TICK)	Yes
EAC (formerly Gost-R)	Yes
Use in hazardous areas	105
ATEX Zone 2	No
ATEX Zone 22	No
• cULus Class   Zone 1	No
• cULus Class I Zone 2, Division 2	No
FM Class I Division 2	No
Ambient conditions	
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 %
Operating systems	
proprietary	Yes
	Yes
proprietary	Yes No
proprietary pre-installed operating system	
proprietary pre-installed operating system • Windows CE	
proprietary pre-installed operating system • Windows CE configuration / header	No
proprietary pre-installed operating system • Windows CE configuration / header Message indicator	No Yes
proprietary pre-installed operating system • Windows CE configuration / header Message indicator Alarm system (incl. buffer and acknowledgment)	No Yes Yes
proprietary pre-installed operating system • Windows CE configuration / header Message indicator Alarm system (incl. buffer and acknowledgment) Process value display (output) Process value default (input) possible Recipe management	No Yes Yes Yes
proprietary         pre-installed operating system         • Windows CE         configuration / header         Message indicator         Alarm system (incl. buffer and acknowledgment)         Process value display (output)         Process value default (input) possible         Recipe management         Configuration software	No Yes Yes Yes Yes Yes
proprietary pre-installed operating system • Windows CE configuration / header Message indicator Alarm system (incl. buffer and acknowledgment) Process value display (output) Process value default (input) possible Recipe management	No Yes Yes Yes Yes Yes Yes
proprietary         pre-installed operating system         • Windows CE         configuration / header         Message indicator         Alarm system (incl. buffer and acknowledgment)         Process value display (output)         Process value default (input) possible         Recipe management         Configuration software         • STEP 7 Basic (TIA Portal)         • STEP 7 Professional (TIA Portal)	No Yes Yes Yes Yes Yes Yes Yes Yes; via integrated WinCC Basic (TIA Portal) Yes; via integrated WinCC Basic (TIA Portal)
proprietary pre-installed operating system • Windows CE configuration / header Message indicator Alarm system (incl. buffer and acknowledgment) Process value display (output) Process value default (input) possible Recipe management Configuration software • STEP 7 Basic (TIA Portal) • STEP 7 Professional (TIA Portal) • WinCC flexible Compact	No Yes Yes Yes Yes Yes Yes Yes; via integrated WinCC Basic (TIA Portal) Yes; via integrated WinCC Basic (TIA Portal) No
proprietary         pre-installed operating system         • Windows CE         configuration / header         Message indicator         Alarm system (incl. buffer and acknowledgment)         Process value display (output)         Process value default (input) possible         Recipe management         Configuration software         • STEP 7 Basic (TIA Portal)         • STEP 7 Professional (TIA Portal)         • WinCC flexible Compact         • WinCC flexible Standard	No Yes Yes Yes Yes Yes Yes Yes Yes Ves; via integrated WinCC Basic (TIA Portal) Yes; via integrated WinCC Basic (TIA Portal) No No
proprietary         pre-installed operating system         • Windows CE         configuration / header         Message indicator         Alarm system (incl. buffer and acknowledgment)         Process value display (output)         Process value default (input) possible         Recipe management         Configuration software         • STEP 7 Basic (TIA Portal)         • STEP 7 Professional (TIA Portal)         • WinCC flexible Compact         • WinCC flexible Standard         • WinCC flexible Advanced	No Yes Yes Yes Yes Yes Yes Yes Yes Ves Ves Ves Ves Ves Ves Ves
proprietary         pre-installed operating system         • Windows CE         configuration / header         Message indicator         Alarm system (incl. buffer and acknowledgment)         Process value display (output)         Process value default (input) possible         Recipe management         Configuration software         • STEP 7 Basic (TIA Portal)         • WinCC flexible Compact         • WinCC flexible Standard         • WinCC flexible Advanced         • WinCC Basic (TIA Portal)	No Yes Yes Yes Yes Yes Yes Yes Yes Via integrated WinCC Basic (TIA Portal) Yes; via integrated WinCC Basic (TIA Portal) No No No No Yes
proprietary         pre-installed operating system         • Windows CE         configuration / header         Message indicator         Alarm system (incl. buffer and acknowledgment)         Process value display (output)         Process value default (input) possible         Recipe management         Configuration software         • STEP 7 Basic (TIA Portal)         • STEP 7 Professional (TIA Portal)         • WinCC flexible Compact         • WinCC flexible Advanced         • WinCC Basic (TIA Portal)         • WinCC Comfort (TIA Portal)	No Yes Yes Yes Yes Yes Yes Yes; via integrated WinCC Basic (TIA Portal) Yes; via integrated WinCC Basic (TIA Portal) No No No No Yes
proprietary pre-installed operating system • Windows CE configuration / header Message indicator Alarm system (incl. buffer and acknowledgment) Process value display (output) Process value default (input) possible Recipe management Configuration software • STEP 7 Basic (TIA Portal) • STEP 7 Professional (TIA Portal) • WinCC flexible Compact • WinCC flexible Standard • WinCC flexible Advanced • WinCC Basic (TIA Portal) • WinCC Comfort (TIA Portal) • WinCC Comfort (TIA Portal) • WinCC Advanced (TIA Portal)	No Yes Yes Yes Yes Yes Yes Yes; via integrated WinCC Basic (TIA Portal) Yes; via integrated WinCC Basic (TIA Portal) No No No No Yes Yes
proprietary         pre-installed operating system         • Windows CE         configuration / header         Message indicator         Alarm system (incl. buffer and acknowledgment)         Process value display (output)         Process value default (input) possible         Recipe management         Configuration software         • STEP 7 Basic (TIA Portal)         • STEP 7 Professional (TIA Portal)         • WinCC flexible Compact         • WinCC flexible Advanced         • WinCC Comfort (TIA Portal)         • WinCC Comfort (TIA Portal)         • WinCC Comfort (TIA Portal)         • WinCC Resional (TIA Portal)         • WinCC Comfort (TIA Portal)         • WinCC Comfort (TIA Portal)         • WinCC Resional (TIA Portal)         • WinCC Resional (TIA Portal)	No Yes Yes Yes Yes Yes Yes Yes; via integrated WinCC Basic (TIA Portal) Yes; via integrated WinCC Basic (TIA Portal) No No No No Yes
proprietary         pre-installed operating system         • Windows CE         configuration / header         Message indicator         Alarm system (incl. buffer and acknowledgment)         Process value display (output)         Process value default (input) possible         Recipe management         Configuration software         • STEP 7 Basic (TIA Portal)         • STEP 7 Professional (TIA Portal)         • WinCC flexible Compact         • WinCC flexible Advanced         • WinCC flexible Advanced         • WinCC Comfort (TIA Portal)         • WinCC Advanced (TIA Portal)         • WinCC Professional (TIA Portal)         • WinCC Comfort (TIA Portal)         • WinCC Professional (TIA Portal)	No Yes Yes Yes Yes Yes Yes Yes; via integrated WinCC Basic (TIA Portal) Yes; via integrated WinCC Basic (TIA Portal) No No No No Yes Yes
proprietary pre-installed operating system • Windows CE configuration / header Message indicator Alarm system (incl. buffer and acknowledgment) Process value display (output) Process value default (input) possible Recipe management Configuration software • STEP 7 Basic (TIA Portal) • STEP 7 Professional (TIA Portal) • WinCC flexible Compact • WinCC flexible Standard • WinCC flexible Advanced • WinCC flexible Advanced • WinCC Comfort (TIA Portal) • WinCC Comfort (TIA Portal) • WinCC Professional (TIA Portal) • WinCC Professional (TIA Portal) • WinCC Professional (TIA Portal) • WinCC Professional (TIA Portal)	No Yes Yes Yes Yes Yes Yes Yes Yes Yes; via integrated WinCC Basic (TIA Portal) Yes; via integrated WinCC Basic (TIA Portal) No No No No Yes Yes Yes Yes Yes
proprietary         pre-installed operating system         • Windows CE         configuration / header         Message indicator         Alarm system (incl. buffer and acknowledgment)         Process value display (output)         Process value default (input) possible         Recipe management         Configuration software         • STEP 7 Basic (TIA Portal)         • STEP 7 Professional (TIA Portal)         • WinCC flexible Compact         • WinCC flexible Advanced         • WinCC Basic (TIA Portal)         • WinCC Comfort (TIA Portal)         • WinCC Comfort (TIA Portal)         • WinCC Professional (TIA Portal)         • WinCC Comfort (TIA Portal)         • WinCC Professional (TIA Portal) <td>No Yes Yes Yes Yes Yes Yes Yes; via integrated WinCC Basic (TIA Portal) Yes; via integrated WinCC Basic (TIA Portal) No No No No Yes Yes</td>	No Yes Yes Yes Yes Yes Yes Yes; via integrated WinCC Basic (TIA Portal) Yes; via integrated WinCC Basic (TIA Portal) No No No No Yes Yes
proprietary         pre-installed operating system         • Windows CE         configuration / header         Message indicator         Alarm system (incl. buffer and acknowledgment)         Process value display (output)         Process value default (input) possible         Recipe management         Configuration software         • STEP 7 Basic (TIA Portal)         • STEP 7 Professional (TIA Portal)         • WinCC flexible Compact         • WinCC flexible Advanced         • WinCC Comfort (TIA Portal)         • WinCC Comfort (TIA Portal)         • WinCC Comfort (TIA Portal)         • WinCC Professional (TIA Portal)         • WinCC Rescipe (TIA Portal)         • WinCC Rescipe (TIA Portal)         • WinCC Comfort (TIA Portal)         • WinCC Professional (TIA Portal)         • Wince of online/runtime languages         • Number of online/runtime languages	No Yes Yes Yes Yes Yes Yes Yes; via integrated WinCC Basic (TIA Portal) Yes; via integrated WinCC Basic (TIA Portal) No No No No Yes Yes Yes Yes Yes Yes Yes
proprietary         pre-installed operating system         • Windows CE         configuration / header         Message indicator         Alarm system (incl. buffer and acknowledgment)         Process value display (output)         Process value default (input) possible         Recipe management         Configuration software         • STEP 7 Basic (TIA Portal)         • STEP 7 Professional (TIA Portal)         • WinCC flexible Compact         • WinCC flexible Advanced         • WinCC Comfort (TIA Portal)         • WinCC Comfort (TIA Portal)         • WinCC Comfort (TIA Portal)         • WinCC Professional (TIA Portal)         • WinCC Professional (TIA Portal)         • WinCC Comfort (TIA Portal)         • WinCC Professional (TIA Portal)         • Number of online/runtime languages         • Number of online/runtime lang	No Yes Yes Yes Yes Yes Yes Yes Yes Yes; via integrated WinCC Basic (TIA Portal) Yes; via integrated WinCC Basic (TIA Portal) No No No No Yes Yes Yes Yes Yes
proprietary         pre-installed operating system         • Windows CE         configuration / header         Message indicator         Alarm system (incl. buffer and acknowledgment)         Process value display (output)         Process value default (input) possible         Recipe management         Configuration software         • STEP 7 Basic (TIA Portal)         • STEP 7 Professional (TIA Portal)         • WinCC flexible Compact         • WinCC flexible Standard         • WinCC Comfort (TIA Portal)         • WinCC Comfort (TIA Portal)         • WinCC Comfort (TIA Portal)         • WinCC Professional (TIA Portal)         • WinCC Comfort (TIA Portal)         • WinCC Professional (TIA Portal)         • Wince Project Ianguages         • Languages per project         Functionality under WinCC (TIA Portal)	No Yes Yes Yes Yes Yes Yes Yes Yes Yes; via integrated WinCC Basic (TIA Portal) Yes; via integrated WinCC Basic (TIA Portal) No No No No Yes Yes Yes Yes Yes Yes
proprietary         pre-installed operating system         • Windows CE         configuration / header         Message indicator         Alarm system (incl. buffer and acknowledgment)         Process value display (output)         Process value default (input) possible         Recipe management         Configuration software         • STEP 7 Basic (TIA Portal)         • STEP 7 Professional (TIA Portal)         • WinCC flexible Compact         • WinCC flexible Advanced         • WinCC Comfort (TIA Portal)         • WinCC Comfort (TIA Portal)         • WinCC Comfort (TIA Portal)         • WinCC Professional (TIA Portal)         • WinCC Professional (TIA Portal)         • WinCC Comfort (TIA Portal)         • WinCC Professional (TIA Portal)         • Number of online/runtime languages         • Number of online/runtime lang	No Yes Yes Yes Yes Yes Yes Yes; via integrated WinCC Basic (TIA Portal) Yes; via integrated WinCC Basic (TIA Portal) No No No No Yes Yes Yes Yes Yes Yes Yes

Task planner	Vec
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
Bit messages	
— Number of bit messages	1 000
Analog messages	
— Number of analog messages	25
S7 alarm number procedure	No
System messages HMI	Yes
• System event, more (SIMATIC S7, SINUMERIK, SIMOTION, )	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
<ul> <li>Acknowledgment groups</li> </ul>	Yes
Message indicator	Yes
Message buffer	
- Number of entries	256
— Circulating buffer	Yes
— retentive	Yes
— maintenance-free	Yes
Recipe management	
Number of recipes	50
Data records per recipe	100
<ul> <li>Entries per data record</li> </ul>	100
<ul> <li>Size of internal recipe memory</li> </ul>	256 kbyte
Recipe memory expandable	No
Variables	
Number of variables per device	800
Number of variables per screen	100
Limit values	Yes
Multiplexing	Yes
Structures	No
• Arrays	Yes
Images	100
Number of configurable images	100
Permanent window/default	Yes
Global image	Yes
Image selection by PLC	Yes
Image number in the PLC	Yes
Image objects	Vac
• Text fields	Yes
I/O fields     Over his I/O fields (see his list)	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
<ul> <li>Sm@rtClient view</li> </ul>	No

• Accipte value     Yes       • Applem diagnostits value     Yes       • Media Tapper     No       • PD artise adjuity     No       • Partie adjuity     No       • Bartis Tapper     No       • Startise     No       • Analog digital colo:     Yes		
• VeraVera• Mode all properNo• POP depipyNo• Por anners depinyNo• Paramers depinyYes• Number of archives per device2• Number of archives per device2• Number of archives per device2• Paramers depinyYes• Paramers depinyYes• Paramers depinyYes• Paramers depinyNo• Barany depinyNo• Data Encose per deviceYes• Data Encose per deviceYes <tr< td=""><td>Recipe view</td><td>Yes</td></tr<>	Recipe view	Yes
NoNoPor displayNoPor displayNoPor displayNoPor displayNoPor displayNoPorter instrumentsNoPorter instrumentsYasPorter instrumentsYasPorter instrumentsYasPorter instrumentsYasPorter instrumentsYasPorter instrumentsNoPorter i		
NoNoPC area registryNoBar graphsYesSituationsNoSituationsNoNo antiog digital cockNoNumber of archives per device2Number of archives per device2Number of archives per device2Number of archives per device2Number of archives per device10000Message archiveYes- Resumal archiveYes- Sequential archiveYes- Sequential archiveYes- Sequential archiveYes- Barberm archiveYes- Barber archiveYes- Sarber archiveYes- Sarber archiveYes- Sarber archiveYes <td></td> <td></td>		
No- Bar graphsYes- SidiersNo- Analog cipital colocNo- Analog cipital colocNo- Analog cipital coloc2- Number of artiches per device2- Number of artiches per device7- Stortleim articheYes- Brotteim articheYes- Brotteim articheYes- USB memoryYes- Data dropa formal CSYYes- TATNo- TATNo- TATNo- Robe Number of user groups50- Passexord apport/importYes- Number of user groups50- Stratic (appatiolowind)Yes- US EnglishYes- US EnglishYes- Stratic (appatiolowind)Yes- US EnglishYes- Stratic (appatiolowind)Yes- Stratic (appatiolowind)Yes- Stratic (appatiolowind)Yes- Stratic (appatiolowind)Yes- Stratic (appatiolowind)Yes- Stratic (appatiolowind)Yes <td< td=""><td></td><td></td></td<>		
• Ser graphs     Yes       • Silviers     No       • Analog dight dick     No       • Analog dight dick     No       • Analog dight dick     No       • Number of archives per divice     2       • Number of archives per divice     2       • Number of archives per divice     Yes       • Process value archive     Yes       • Process value archive     Yes       • Archiving methods     -       • Sequential archive     Yes       • Archiving archive     Yes       • Memory location     No       • Memory location     -       • Memory location     No       • LUSB memory     Yes       • Ethernet     No       • Dobas storage format     -       - CSV     Yes       • FDb     No       • Satury     Solution       • Number of user groups     Solution       • Number of user groups     Solution       • Sharth of user groups     Solution       • Subastorage format     -       - US Siglish     Yes       • Solution     No       • Solution     No       • Solution     Yes       • Solution     Yes       • Solution     Yes       • Solution		
sloveni second s		
- Analog of gla dook         No           - Analog of gla dook         No           - Analog of gla dook         2           - Number of archives per dovice         2           - Number of archives per dovice         10 000           - Message archive         Yes           - Process value archive         Yes           - Arching methods         -           - Sequential archive         Yes           - Memory location         No           - Memory location         No           - Memory location         No           - DSB memory         Yes           - DSB memory         Yes           - DSB memory         Yes           - DSB memory         Yes           - DSB dorage formal         -           - DSB memory         Yes           - Passon dorad         Yes           - DSB memory         Yes           - DSB memory         Yes           - Passon dorad	Bar graphs	Yes
Narbidigital clock         No           Autimities of archives per device         2           Number of archives per device         10 000           Message archive         Yes           Process value archive         Yes           Process value archive         Yes           - Stopuential archive         Yes           - Stopuential archive         Yes           - Stopuential archive         Yes           - Memory location         No           - USB memory         Yes           - Ethernet         No           - CSV         Yes           - TAT         No           - RDB         No           Seauty         Yes           - Number of user groups         50           - Password export/mpart         Yes           - Number of user groups         50           - Number of user groups         Yes           - Stop for for for         -US English           - US English         Yes           - US English         Yes           - Stard Exponder format         Yes           - US English         Yes           - Stard Exponder format         Yes           - US English         Yes	Sliders	No
Archives per archive         2           • Number of entries per archive         10 000           • Message archive         Yes           • Process value archive         Yes           • Archiving methods         -           - Squential archive         Yes           - Aspential archive         Yes           - Memory backing         Yes           - Memory backing         Yes           - Memory backing         Yes           - Both-term archive         Yes           - USB memory         Yes           - USB memory         Yes           - CSV         Yes           - TYT         No           - CSV         Yes           - TXT         No           - ROB         No           Security         Number of user groups         50           • Reybeard fonts         -           - US English         Yes           * Transfer orgoloaddowniadd         No           • Usig         No           • Usig         No           • Stribus         No           • Stribus         No           • Stribus         No           • Classet sests         -	Pointer instruments	
• Number of archives per archive2• Number of archives per archive10 000• Message archiveYes• Process value archiveYes• Process value archiveYes• Archiving methodsYes- Sequential archiveYes- Sequential archiveYes- Memory locationNo- USB memoryYes- ElternetNo- CSVYes- ElternetNo- CSVYes- TATNo- archive of user groups50• Pessword export/inportYes, Possible via ProSave• SiMATIC LogonNo• SiMATIC LogonNo• Starder format USBNo• Simatific (plabadidowniad)Yes• Muriper formatYes• Simatific (plabadidowniad)Yes• Muriper formatYes• Simatific (plabadidowniad)Yes• Simatific (plaba	Analog/digital clock	No
• Number of entries per archive10.000• Message archiveYes• Archiving methods-• - Stort-kern archiveYes Stort-kern archiveYes Memory cardinNo USB memoryYes BitematNo Data storage format CSVYes TATNo RDBNo RDBNo- Start for archiveYes- Number of user groupsSo• Password exportimportYes- Number of user groupsSo• StartATIC LogonNo- USB EnglishYes- USB EnglishYes- USB EnglishYes- USB EnglishYes- Startation (upported format USB EnglishYes- Startation (upported formatYes- Startation (upported format USB EnglishYes- Startation (upported formatYes		
• Message archiveYes• Process value archiveYes• Archiving methodsYes- Sequential archiveYes• Memory locationNo- USB memoryYes• Memory cardNo- USB memoryYes• Data storage formatNo- Storage formatNo- TATNo- RDBNo- RDBNo- RDBNo- Storage formatNo- Storage formatNo- TATNo- RDBNo- Storator disportingontYes• Staffart LognnNo- Storator disportingontYes• Staffart Guipaddowniad)Yes• Muriter Fulls StaffartYes• Staffart Guipaddowniad)Yes• USB memolYes• Staffart Guipaddowniad)Yes• Using actional storage mediumYes: Backup/restore• Process couplingYes• S7-1500Yes• S7-1500Yes <td></td> <td></td>		
Process value archiveYes- Scottern archiveYes- Shortern archiveYes- Shortern archiveYes- Memory coadonNo- USB memoryYes- ElementNo- CSVYes- TATNo- RDBNo- RDBNoSecurityYes- Number of user groups50- Pass decord export/importYes: Possible via ProSaveSiMATIC LogonNoCharter archive in the security of the securityNumber of user groups50- Pass word export/importYes: Possible via ProSaveSiMATIC LogonNoCharter archive in the securityNumber of user groupsYes- US EnglishYes- US EnglishYes- US EnglishYes- S7-1200Yes- S7-1200Yes		
Archiving methods         — Sequential archive         Yes         — Shownoy cad         — Sequential archive         Yes         — Shownoy cad         — USB memory         — USB memory         — USB memory         — USB memory         — Ehernet         — OSV         — CSV         — CSV         — CSV         — CSV         — TXT         — OSB         — TXT         — No         — Souther archive         — CSV         — TXT         — No         — Souther archive         — CSV         — TXT         — No         — Souther archive         — CSV         — Souther archive         — CSV         — Souther archive         — CSV         — TXT         — No         — Souther archive         — CSV         — Ves         — TXT         — No         — Souther archive	Message archive	Yes
Sequential archiveYesShort-term archiveYesMemory coardNoUSB memoryYesEhernetNoData storage format	<ul> <li>Process value archive</li> </ul>	Yes
Short-term archiveYes•-Memory locationNoUBB memoryYesBhernetNoData storage formatNoCSVYesTATNoRDBNoSecurityS0• Number of user groupsS0• Number of user groupsS0• SiMATIC LogonNoCharacter sets	Archiving methods	
• Memory locationNo Use memory andNo Use memoryYes EthernetNo• Data storage format CSVYes TATNo RDBNoSecuritySo• Number of user groups50• Password export/inportYes: Possible via ProSave• SiMATIC LogonNoCharacter sets Us EnglishYes Si ZoOYes Si ZoOYes Si ZoOYes Si ZoOYes	<ul> <li>— Sequential archive</li> </ul>	Yes
	— Short-term archive	Yes
USB memoryYesEthernetNoData storage format	Memory location	
EthernetNo CSVYes TXTNo RDSNo RDSSoSecurity• Number of user groups50• Password export/importYes• SiMATIC LogonNoCharacter sets US EnglishYesTaratier (upload/downicad) US EnglishYesTaratier (upload/downicad) US EnglishYesTaratier (upload/downicad) US EnglishYes US EnglishYes US ColorYes S7-200Yes S7-200Yes USCOYes USCOYes USCOYes USCOYes USCOYes USCOYes USCOYes Starloy (EnerNet/IP)Yes Allen Bradey (DFT)No MIRON (FINS TCP)No MIRON (FINS TCP)No MIRON (FINS TCP)/PYes MIRON	— Memory card	No
• Data storage format·- CSVYes- TATNo- RDBNoSecurity50• Number of user groups50• Password export/importYes; Possible via ProSave• SIMATIC LogonNoCharacter sets US EnglishYesTransfer (upload/download)Yes• MP/PROFIBUS DPNo• USBNo• Using external storage mediumYes9 S7-1500Yes• S7-1500Yes• S7-1500Yes• S7-1500Yes• S7-300/0400Yes• S1MOTIONYes• Minabin Bradley (EtherNet/P)Yes• Minabin Bradley (Ctr)No• Minabin Bradley (Ctr)No• Minabin (MC TCP/IP)Yes• Minabin (MC TCP/IP)Yes• Modicon (Modbus TCP/IP)Yes• Modicon (Modbus)No• Modicon (Modbus)No• SimulationYes• Backup/Restor anuallyYes <tr< td=""><td>— USB memory</td><td>Yes</td></tr<>	— USB memory	Yes
- CSV         Yes           - TXT         No           - RDB         No           Security         50           • Password export/import         Yes, Possible via ProSave           • SIMATIC Logon         No           Character sets	— Ethernet	No
- TXTNo- RDBNoSecurity50• Number of user groups50• Password export/importYes: Possible via ProSave• Password export/importNo• SIMATIC LogonNoCharacter setsUS English- US EnglishYes• MPI/PROFIBUS DPNo• USBNo• USBNo• USBYes• EthernetYes• S7-1200Yes• S7-1200Yes• S7-1500Yes• S7-300/400Yes• S7-300/400Yes• S7-300/400Yes• UNOTIONYes• Mitsubishi (MC TCP/IP)Yes• Mitsubishi (MC TCP/IP)Yes• Mitsubishi (MC TCP/IP)No• Mitsubishi (MC TCP/IP)Yes• Mitsubishi (MC TCP/IP)Yes <td< td=""><td>Data storage format</td><td></td></td<>	Data storage format	
	— CSV	Yes
Security         50                • Password export/import             • Pessword export/import             • SIMATIC Logon             No                 • SIMATIC Logon          No                 • Character sets                   • LS English          Yes                 • LS English          Yes                 • LSB          No                 • S7.1200          Yes                 • S7.1200          Yes                 • S7.400/400          Yes                 • S7.300/400          Yes                  • S7.300/400          Yes                 • SIMOTION          Yes                 • Milsubihi (NC TOPIP)          Yes                 • Allen Bradley (EtherNet/IP)                 • M	— TXT	No
• Number of user groups50• Password export/importYes; Possible via ProSave• SIMATIC LogonNo• Character sets US EnglishYes- US EnglishYes• MPI/PROFIBUS DPNo• USBNo• USBNo• USBYes• Sind action addYes• Sind action addYes• Sing external storage mediumYes; Backup/restore• Process couplingYes• S7-1200Yes• S7-1200Yes• S7-1200Yes• S7-1200Yes• S7-1200Yes• S7-200Yes• S7-300/400Yes• UMACYes• MinACYes• MinACYes• MinACYes• MinB aradey (EtherNet/IP)Yes• Allen Bradey (EtherNet/IP)Yes• Misubishi (KC TCP/IP)Yes• Misubishi (KC TCP/IP)Yes• Modicon (Modbus TCP/IP)Yes• Backup/Restore manuallyYes• Backup/Restore manuallyYes• Backup/Restore manuallyYes• Device switchoverYes• Device switchoverYes• Device switchoverYes• Device switchoverYes• Device switchoverY	— RDB	No
• Password export/import       • SIMATIC Logon       No           • SIMATIC Logon       No           • Character set           •US English           •US English           • - US Fight          • MF//PROFIBUS DP           • MF//PROFIBUS DP           • USB           • USB           • USB           • Linernet           • using external storage medium           • S7.1200           • S7.1200           • S7.1200           • S7.1200           • S7.200           • S7.300/400           • S7.300/400           • S7.300/400           • S7.300/400           • S7.300/400           • S7.300/400           • Ves           • SIMOTION           • SIMOTION           • Ves           • SIMOTION           • Milsubishi (MC TCP/IP)           • Ves           • Milsubishi (MC TCP/IP)           • Milsubishi (NC TCP/IP)           • Modicon (Modubus TCP/IP)           • Modicon (Modubus TCP/IP)           • Modicon (Modubus           • Modicon (Modubus	Security	
SIMATIC Logon         No           Character sets         -                · Keyboard fonts             US English         Yes           Transfer (upload/download)         -                · MPI/PROFIBUS DP             · No             · USB             · No             · USB             · No             · USB             · No             · USB             · Ves                 · Using external storage medium         Yes; Backup/restore                Process coupling          Yes                 · S7.1200          Yes                 · S7.1200             · Yes          Yes                 · USGOI          Yes                 · SIMOTION          Yes                 · Billen Bradley (Ibr!Net/IP)          Yes                 · Milsubishi (MC TCP/IP)          Yes                 · Milsubishi (MC TCP/IP)          Yes	Number of user groups	50
Character sets         Keyboard fonts           — US English         Yes           Transfer (upload/download)         Transfer (upload/download)           • MPI/PROFIBUS DP         No           • USB         No           • USB         Yes; Eackup/restore           • using external storage medium         Yes; Eackup/restore           Process coupling         Yes; Sackup/restore           • S7-1200         Yes           • S7-200         Yes           • S7-200         Yes           • S7-300/400         Yes           • S7-300/400         Yes           • S7-300/400         Yes           • S7-300/400         Yes           • LOGOI         Yes           • LOGOI         Yes           • MINAC         Yes           • SIMOTION         Yes           • Allen Bradley (DF1)         No           • Mitsubishi (KC TCP/IP)         Yes           • Mitsubishi (KC TCP/IP)         Yes           • Mitsubishi (KC TCP/IP)         Yes           • Modicon (Modbus TCPIP)         Yes           • Modicon (Modbus TCP/IP)         Yes           • Modicon (Modbus TCP/IP)         Yes           • Modicon (Modbus TCP/IP)	<ul> <li>Password export/import</li> </ul>	Yes; Possible via ProSave
• Keyboard fonts         Yes           • US English         Yes           • MP/PROFIBUS DP         No           • USB         Yes           • using external storage medium         Yes           • S7-1200         Yes           • S7-1500         Yes           • S7-1500         Yes           • S7-300/400         Yes           • LOGOI         Yes           • S7-300/400         Yes           • LOGOI         Yes           • MiAC         Yes           • LOGOI         Yes           • MIAC         Yes           • MIAC         Yes           • MIAC         Yes           • Allen Bradley (EtherNet/IP)         Yes           • Mitsubishi (KX)         No           • Mitsubishi (KX)         No           • MIRON (LINK/Multilink)         No           • Modicon (Modbus TCP/IP)         Yes           • Modicon (Modbus TCP/IP)         Yes           • Modicon (Modbus TCP/IP)         Yes           • Modicon (Modbus TCP/IP)         Yes <td></td> <td></td>		
Use English         Yes           Transfer (upload/download)            Transfer (upload/download)         No           USB         No           USB         No           Ethernet         Yes           using external storage medium         Yes; Backup/restore           Process coupling         Yes           \$7.1200         Yes           \$7.7200         Yes           \$7.7200         Yes           \$7.300/400         Yes           \$7.300/4	Character sets	
Transfer (upload/download)• MPI/PROFIBUS DPNo• USBNo• EthernetYes• using external storage mediumYes; Backup/restoreProcess couplingYes• S7-1200Yes• S7-1500Yes• S7-200Yes• S7-300/400Yes• LOGO!Yes• NonACYes• SIMOTIONYes• Allen Bradley (DF1)No• Mitsubishi (MC TCP/IP)Yes• Mitsubishi (FX)No• OMRON (LINK/Mutilink)No• Modicon (Modbus)NoService tools/configuration aids• Backup/Restore anuallyYes• Backup/Restore anuallyYes• Device switchoverYes• Device switchoverYes• Device switchoverYes• Device switchoverYes• Device switchoverYes	Keyboard fonts	
Transfer (upload/download)• MPI/PROFIBUS DPNo• USBNo• EthernetYes• using external storage mediumYes; Backup/restoreProcess couplingYes• S7-1200Yes• S7-1500Yes• S7-200Yes• S7-300/400Yes• LOGO!Yes• NonACYes• SIMOTIONYes• Allen Bradley (DF1)No• Mitsubishi (MC TCP/IP)Yes• Mitsubishi (FX)No• OMRON (LINK/Mutilink)No• Modicon (Modbus)NoService tools/configuration aids• Backup/Restore anuallyYes• Backup/Restore anuallyYes• Device switchoverYes• Device switchoverYes• Device switchoverYes• Device switchoverYes• Device switchoverYes	— US English	Yes
• USBNo• EthernetYes• using external storage mediumYes; Backup/restoreProcess couplingYes; Sackup/restore• S7-1200Yes• S7-1500Yes• S7-200Yes• S7-300/400Yes• LOGO!Yes• UNACYes• WinACYes• SIMOTIONYes• Allen Bradley (EtherNet/IP)Yes• Allen Bradley (DF1)No• Mitsubishi (MC TCP/IP)Yes• Mitsubishi (KX)No• OMRON (LINK/Multilink)No• Modicon (Modbus)No• Modicon (Modbus)Yes• Backup/Restore automaticallyYes• Backup/Restore automaticallyYes• Device switchoverYes• Device switchoverYes• Device switchoverYes	Transfer (upload/download)	
• EthernetYes• using external storage mediumYes; Backup/restoreProcess coupling• S7-1200Yes• S7-1500Yes• S7-200Yes• S7-300/400Yes• LOGOIYes• UNACYes• WinACYes• Allen Bradley (EtherNet/IP)Yes• Allen Bradley (DF1)No• Mitsubishi (MC TCP/IP)Yes• Mitsubishi (XC)No• OMRON (FINS TCP)No• Modicon (Modbus)No• Modicon (Modbus)No• Backup/Restore manuallyYes• Backup/Restore manuallyYes• Backup/Restore manuallyYes• Device switchoverYes• Device	MPI/PROFIBUS DP	No
• EthernetYes• using external storage mediumYes; Backup/restoreProcess couplingYes• S7-1200Yes• S7-1500Yes• S7-200Yes• S7-300/400Yes• LOGOIYes• UNACYes• WinACYes• Allen Bradley (EtherNet/IP)Yes• Allen Bradley (EtherNet/IP)Yes• Mitsubishi (MC TCP/IP)Yes• Mitsubishi (FX)No• OMRON (LINK/Mutlink)No• Modicon (Modbus TCP/IP)Yes• Backup/Restore manuallyYes• Backup/Restore manuallyYes• Device switchoverYes• Device switchoverYes	• USB	No
Process coupling• \$7-1200Yes• \$7-1200Yes• \$7-1500Yes• \$7-200Yes• \$7-300/400Yes• LOGO!Yes• LOGO!Yes• WinACYes• SIMOTIONYes• Allen Bradley (EtherNet/IP)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)NoService tools/configuration aidsYes• Backup/Restore automaticallyYes• Backup/Restore automaticallyNo• SimulationYes• Device switchoverYes• Device switchoverYes• Peripherals/OptionsYes	• Ethernet	
Process coupling• \$7-1200Yes• \$7-1200Yes• \$7-1500Yes• \$7-200Yes• \$7-300/400Yes• LOGO!Yes• LOGO!Yes• WinACYes• SIMOTIONYes• Allen Bradley (EtherNet/IP)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)NoService tools/configuration aidsYes• Backup/Restore automaticallyYes• Backup/Restore automaticallyNo• SimulationYes• Device switchoverYes• Device switchoverYes• Peripherals/OptionsYes	<ul> <li>using external storage medium</li> </ul>	Yes; Backup/restore
• S7-1200Yes• S7-1500Yes• S7-200Yes• S7-300/400Yes• LOGOIYes• LOGOIYes• WinACYes• SIMOTIONYes• 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)No• Service tools/configuration aidsService tools/configuration aids• Backup/Restore manuallyYes• Backup/Restore automaticallyNo• Device switchoverYes• Device switchoverYes• Devices switchoverYes• Peripherals/OptionsYes		
• S7-200Yes• S7-300/400Yes• LOGO!Yes• WinACYes• WinACYes• SIMOTIONYes• Allen Bradley (EtherNet/IP)Yes• Allen Bradley (DF1)No• Mitsubishi (MC TCP/IP)Yes• Mitsubishi (FX)No• OMRON (FINS TCP)No• OMRON (FINS TCP)Yes• Modicon (Modbus TCP/IP)Yes• Modicon (Modbus)NoService tools/configuration aidsYes• Backup/Restore manuallyYes• Backup/Restore automaticallyNo• SimulationYes• Device switchoverYes• Device switchoverYes		Yes
• S7-300/400Yes• LOGO!Yes• WinACYes• SIMOTIONYes• 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)NoService tools/configuration aidsYes• Backup/Restore manuallyYes• Backup/Restore automaticallyNo• SimulationYes• Device switchoverYes• Device switchoverYes	• S7-1500	Yes
• S7-300/400Yes• LOGO!Yes• WinACYes• SIMOTIONYes• 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)NoService tools/configuration aidsYes• Backup/Restore manuallyYes• Backup/Restore automaticallyNo• SimulationYes• Device switchoverYes• Device switchoverYes		
LOGO!YesWinACYesSIMOTIONYesAllen Bradley (EtherNet/IP)YesAllen Bradley (DF1)NoMitsubishi (MC TCP/IP)YesMitsubishi (FX)NoOMRON (FINS TCP)NoOMRON (LINK/Multilink)NoModicon (Modbus TCP/IP)YesModicon (Modbus TCP/IP)YesBackup/Restore manuallyYesBackup/Restore automaticallyNoSimulationYesDevice switchoverYesPeripherals/OptionsYes		
• WinACYes• SIMOTIONYes• 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 TCP/IP)Yes• Modicon (Modbus TCP/IP)Yes• Backup/Restore manuallyYes• Backup/Restore manuallyYes• Backup/Restore automaticallyNo• SimulationYes• Device switchoverYes• Peripherals/OptionsYes		
SIMOTIONYesAllen Bradley (EtherNet/IP)YesAllen Bradley (DF1)NoMitsubishi (MC TCP/IP)YesMitsubishi (FX)NoOMRON (FINS TCP)NoOMRON (LINK/Multilink)NoModicon (Modbus TCP/IP)YesModicon (Modbus TCP/IP)YesModicon (Modbus TCP/IP)NoService tools/configuration aidsNoService tools/configuration aidsYesBackup/Restore manuallyYesBackup/Restore automaticallyNoSimulationYesDevice switchoverYesPertpherals/OptionsYes		
Allen Bradley (EtherNet/IP)YesAllen Bradley (DF1)NoMitsubishi (MC TCP/IP)YesMitsubishi (FX)NoOMRON (FINS TCP)NoOMRON (LINK/Multilink)NoModicon (Modbus TCP/IP)YesModicon (Modbus)NoService tools/configuration aidsNoService tools/configuration aidsYesBackup/Restore automaticallyYesSimulationYesDevice switchoverYesPeripherals/OptionsYes		
Allen Bradley (DF1)NoMitsubishi (MC TCP/IP)YesMitsubishi (FX)NoOMRON (FINS TCP)NoOMRON (LINK/Multilink)NoModicon (Modbus TCP/IP)YesModicon (Modbus)NoService tools/configuration aidsBackup/Restore manuallyYesBackup/Restore automaticallyNoSimulationYesDevice switchoverYesPeripherals/Options		
Mitsubishi (MC TCP/IP)YesMitsubishi (FX)NoOMRON (FINS TCP)NoOMRON (LINK/Multilink)NoModicon (Modbus TCP/IP)YesModicon (Modbus)NoService tools/configuration aidsYesBackup/Restore manuallyYesBackup/Restore automaticallyNoSimulationYesDevice switchoverYesPeripherals/OptionsYes		
• Mitsubishi (FX)No• OMRON (FINS TCP)No• OMRON (LINK/Multilink)No• Modicon (Modbus TCP/IP)Yes• Modicon (Modbus)No• Service tools/configuration aidsYes• Backup/Restore manuallyYes• Backup/Restore automaticallyNo• SimulationYes• Device switchoverYes• Peripherals/OptionsYes		
• OMRON (FINS TCP)No• OMRON (LINK/Multilink)No• Modicon (Modbus TCP/IP)Yes• Modicon (Modbus)NoService tools/configuration aidsYes• Backup/Restore manuallyYes• Backup/Restore automaticallyNo• SimulationYes• Device switchoverYesPeripherals/OptionsYes		
• OMRON (LINK/Multilink)No• Modicon (Modbus TCP/IP)Yes• Modicon (Modbus)NoService tools/configuration aidsYes• Backup/Restore manuallyYes• Backup/Restore automaticallyNo• SimulationYes• Device switchoverYesPeripherals/OptionsYes		
• Modicon (Modbus TCP/IP)Yes• Modicon (Modbus)NoService tools/configuration aids• Backup/Restore manuallyYes• Backup/Restore automaticallyNo• SimulationYes• Device switchoverYesPeripherals/Options		
• Modicon (Modbus)     No       Service tools/configuration aids        • Backup/Restore manually     Yes       • Backup/Restore automatically     No       • Simulation     Yes       • Device switchover     Yes       Peripherals/Options     Yes		
Service tools/configuration aids         • Backup/Restore manually       Yes         • Backup/Restore automatically       No         • Simulation       Yes         • Device switchover       Yes         Peripherals/Options       Yes		
• Backup/Restore manually     Yes       • Backup/Restore automatically     No       • Simulation     Yes       • Device switchover     Yes       Peripherals/Options     Yes		
• Backup/Restore automatically     No       • Simulation     Yes       • Device switchover     Yes       Peripherals/Options     Yes		Vac
Simulation Yes     Device switchover Yes  Peripherals/Options		
Device switchover Yes Peripherals/Options		
Peripherals/Options		
		Yes
Printer No		
	Printer	No

SIMATIC HMI MM memory card: Multi Media Card	No
SIMATIC HMI SD memory card: Secure Digital memory card	No
USB memory	Yes; USB storage medium can be connected
Mechanics/material	
Enclosure material (front)	
Plastic	Yes
Aluminum	No
Stainless steel	No
Dimensions	
Width of the housing front	141 mm
Height of housing front	116 mm
Mounting cutout, width	123 mm
Mounting cutout, height	99 mm
Overall depth	33 mm

last modified:

10/8/2021 🖸