## SIEMENS

## Data sheet

## 6AV2124-0UC02-0AX1



SIMATIC HMI TP1900 Comfort, Comfort Panel, Touch operation, 19" widescreen TFT display, 16 million colors, PROFINET interface, MPI/PROFIBUS DP interface, 24 MB configuration memory, WEC 2013, configurable from WinCC Comfort V14 SP1 with HSP

General information		
Product type designation	TP1900 Comfort	
Display		
Design of display	TFT	
Screen diagonal	18.5 in	
Display width	409.8 mm	
Display height	230.4 mm	
Number of colors	16 777 216	
Resolution (pixels)		
<ul> <li>Horizontal image resolution</li> </ul>	1 366 pixel	
<ul> <li>Vertical image resolution</li> </ul>	768 pixel	
Backlighting		
<ul> <li>MTBF backlighting (at 25 °C)</li> </ul>	50 000 h	
Backlight dimmable	Yes; 0-100 %	
Control elements		
Keyboard fonts		
Function keys		
<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	
<ul> <li>alphanumeric keyboard</li> </ul>	Yes; Onscreen keyboard	
Touch operation		
<ul> <li>Design as touch screen</li> </ul>	Yes; Analog-resistive	
Expansions for operator control of the process		
<ul> <li>Direct keys (touch buttons as S7 input I/O)</li> </ul>	40	
Installation type/mounting		
Mounting position	vertical	
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)	1.7 A	

Starting current inrush I <sup>2</sup> t	0.5 A <sup>2</sup> ·s
Power	
Active power input, typ.	41 W
	41 VV
Processor	X86
Processor type	∧00
Memory	Vec
Flash	Yes
RAM Memory queilable for upor data	Yes
Memory available for user data Type of output	24 Mbyte
Info LED	No
Power LED	No
Error LED	No
Acoustics	NU
Buzzer	No
Speaker	Yes
Time of day	
Clock	
Hardware clock (real-time)	Yes
Software clock (real-time)	Yes
retentive	Yes; Back-up duration typically 6 weeks
synchronizable	Yes
Interfaces	
Number of industrial Ethernet interfaces	2; 2 ports (switch) + independent port
Number of RS 485 interfaces	1; RS 422 / 485 combined
Number of RS 422 interfaces	0; together with RS 485
Number of RS 232 interfaces	0
Number of USB interfaces	2; USB 2.0
Number of 20 mA interfaces (TTY)	0
Number of parallel interfaces	0
Number of other interfaces	0
Number of SD card slots	2
With software interfaces	No
Industrial Ethernet	
<ul> <li>Industrial Ethernet status LED</li> </ul>	3
<ul> <li>Number of ports of the integrated switch</li> </ul>	2
Protocols	
PROFINET	Yes
Supports protocol for PROFINET IO	Yes
IRT	Yes
PROFIBUS	Yes
EtherNet/IP	Yes
MPI	Yes
Protocols (Ethernet)	
• TCP/IP	Yes
• DHCP	Yes
• SNMP	Yes
• DCP	Yes
• LLDP	Yes
WEB characteristics	
● HTTP	Yes
• HTTPS	Yes
• HTML	Yes
• XML	Yes
• CSS	Yes
Active X	Yes
<ul> <li>JavaScript</li> </ul>	Yes
● Java VM	No
Redundancy mode	
Media redundancy	

— MRP	Yes
Further protocols	
• CAN	No
• MODBUS	Yes
Interrupts/diagnostics/status information	100
Diagnoses	
Diagnostic information readable	Yes; S7 controller
EMC	
Emission of radio interference acc. to EN 55 011	
Limit class A, for use in industrial areas	Yes
Limit class B, for use in residential areas	No
Degree and class of protection	
IP (at the front)	IP65
IP (rear)	IP20
NEMA (front)	
Enclosure Type 4 at the front	Yes
Enclosure Type 4x at the front	Yes
Standards, approvals, certificates	
CE mark	Yes
cULus	Yes
RCM (formerly C-TICK)	Yes
KC approval	Yes
EAC (formerly Gost-R)	Yes
Use in hazardous areas	
ATEX Zone 2	Yes
• ATEX Zone 22	Yes
IECEx Zone 2	Yes
IECEx Zone 22	Yes
cULus Class I Zone 1	No
cULus Class I Zone 2, Division 2	Yes; For inscription on device rating plate
cULus Class II Division 2	No; in preparation
FM Class I Division 2	Yes; For inscription on device rating plate
FM Class II Division 2	No; in preparation
Marine approval	
Germanischer Lloyd (GL)	No
<ul> <li>American Bureau of Shipping (ABS)</li> </ul>	No
• Bureau Veritas (BV)	No
<ul> <li>Det Norske Veritas (DNV)</li> </ul>	No
<ul> <li>Korean Register of Shipping (KRS)</li> </ul>	No
<ul> <li>Korean Register of Shipping (KRS)</li> <li>Lloyds Register of Shipping (LRS)</li> </ul>	No No
<ul> <li>Lloyds Register of Shipping (LRS)</li> <li>Nippon Kaiji Kyokai (Class NK)</li> <li>Polski Rejestr Statkow (PRS)</li> </ul>	No
<ul> <li>Lloyds Register of Shipping (LRS)</li> <li>Nippon Kaiji Kyokai (Class NK)</li> <li>Polski Rejestr Statkow (PRS)</li> <li>Chinese Classification Society (CCS)</li> </ul>	No No
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Lloyds Register of Shipping (LRS)     Nippon Kaiji Kyokai (Class NK)     Polski Rejestr Statkow (PRS)     Chinese Classification Society (CCS)     Ambient conditions     Suited for indoor use     Suited for outdoor use     Ambient temperature during operation	No No No Yes
Lloyds Register of Shipping (LRS)     Nippon Kaiji Kyokai (Class NK)     Polski Rejestr Statkow (PRS)     Chinese Classification Society (CCS)      Ambient conditions      Suited for indoor use      Suited for outdoor use	No No No Yes
Lloyds Register of Shipping (LRS)     Nippon Kaiji Kyokai (Class NK)     Polski Rejestr Statkow (PRS)     Chinese Classification Society (CCS)     Ambient conditions     Suited for indoor use     Suited for outdoor use     Ambient temperature during operation     Operation (vertical installation)     — For vertical installation, min.	No No No Yes No O °C
Lloyds Register of Shipping (LRS)     Nippon Kaiji Kyokai (Class NK)     Polski Rejestr Statkow (PRS)     Chinese Classification Society (CCS)     Ambient conditions     Suited for indoor use     Suited for outdoor use     Ambient temperature during operation     Operation (vertical installation)     — For vertical installation, min.     — For vertical installation, max.	No No No Yes No
Lloyds Register of Shipping (LRS)     Nippon Kaiji Kyokai (Class NK)     Polski Rejestr Statkow (PRS)     Chinese Classification Society (CCS)     Ambient conditions     Suited for indoor use     Suited for outdoor use     Ambient temperature during operation     Operation (vertical installation)     — For vertical installation, min.     — For vertical installation, max.     Operation (max. tilt angle)	No No No No Yes No 0 °C 45 °C
Lloyds Register of Shipping (LRS)     Nippon Kaiji Kyokai (Class NK)     Polski Rejestr Statkow (PRS)     Chinese Classification Society (CCS)     Ambient conditions     Suited for indoor use     Suited for outdoor use     Ambient temperature during operation     Operation (vertical installation)         — For vertical installation, min.         — For vertical installation, max.     Operation (max. tilt angle)         — At maximum tilt angle, min.	No No No No Yes No O °C 45 °C
Lloyds Register of Shipping (LRS)     Nippon Kaiji Kyokai (Class NK)     Polski Rejestr Statkow (PRS)     Chinese Classification Society (CCS)     Ambient conditions     Suited for indoor use     Suited for outdoor use     Ambient temperature during operation     Operation (vertical installation)         — For vertical installation, min.         — For vertical installation, max.     Operation (max. tilt angle)         — At maximum tilt angle, min.         — At maximum tilt angle, max.	No No No No Yes No 0 °C 45 °C
<ul> <li>Lloyds Register of Shipping (LRS)</li> <li>Nippon Kaiji Kyokai (Class NK)</li> <li>Polski Rejestr Statkow (PRS)</li> <li>Chinese Classification Society (CCS)</li> </ul> Ambient conditions Suited for indoor use Suited for outdoor use Ambient temperature during operation Operation (vertical installation) <ul> <li>For vertical installation, min.</li> <li>For vertical installation, max.</li> </ul> Operation (max. tilt angle) <ul> <li>At maximum tilt angle, min.</li> <li>At maximum tilt angle, max.</li> </ul>	No No No No Yes No 0 °C 45 °C 45 °C
<ul> <li>Lloyds Register of Shipping (LRS)</li> <li>Nippon Kaiji Kyokai (Class NK)</li> <li>Polski Rejestr Statkow (PRS)</li> <li>Chinese Classification Society (CCS)</li> </ul> Ambient conditions Suited for indoor use Suited for outdoor use Ambient temperature during operation Operation (vertical installation) <ul> <li>For vertical installation, min.</li> <li>For vertical installation, max.</li> </ul> Operation (max. tilt angle) <ul> <li>At maximum tilt angle, min.</li> <li>At maximum tilt angle, max.</li> </ul> Operation (vertical installation, portrait format) <ul> <li>For vertical installation, min.</li> </ul>	No No No No Yes No 0°C 45°C 0°C 40°C
<ul> <li>Lloyds Register of Shipping (LRS)</li> <li>Nippon Kaiji Kyokai (Class NK)</li> <li>Polski Rejestr Statkow (PRS)</li> <li>Chinese Classification Society (CCS)</li> </ul> Ambient conditions Suited for indoor use Suited for outdoor use Ambient temperature during operation Operation (vertical installation) <ul> <li>For vertical installation, min.</li> <li>For vertical installation, max.</li> </ul> Operation (max. tilt angle) <ul> <li>At maximum tilt angle, min.</li> <li>At maximum tilt angle, max.</li> </ul> Operation (vertical installation, portrait format) <ul> <li>For vertical installation, min.</li> <li>For vertical installation, max.</li> </ul>	No No No No Yes No 0 °C 45 °C 45 °C
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• min.	-20 °C
• min. • max.	-20°C
Relative humidity	00 C
Operation, max.	90 %; no condensation
·	90 %, no condensation
Operating systems	Νο
proprietary	NO
pre-installed operating system  Windows CE	Vac: Windows Embedded Compact 2012
configuration / header	Yes; Windows Embedded Compact 2013
	N
Message indicator	Yes
Alarm system (incl. buffer and acknowledgment)	Yes
Process value display (output)	Yes
Process value default (input) possible Recipe management	Yes
Configuration software	165
STEP 7 Basic (TIA Portal)	No
STEP 7 Professional (TIA Portal)	No
WinCC flexible Compact	No
WinCo flexible Standard	No
WinCC flexible Advanced	No
WinCC Basic (TIA Portal)	No
WinCC Comfort (TIA Portal)	Yes; V14 SP1 HSP and higher
WinCC Advanced (TIA Portal)	Yes; V14 SP1 HSP and higher
WinCC Professional (TIA Portal)	Yes; V14 SP1 HSP and higher
Languages	
Online languages	
Number of online/runtime languages	32
Project languages	02
Languages per project	32
Functionality under WinCC (TIA Portal)	02
Libraries	Yes
Applications/options	
Web browser	Yes
Pocket Word	Yes
Pocket Excel	Yes
PDF Viewer	Yes
Media Player	Yes
SIMATIC WinCC Sm@rtServer	Yes
SIMATIC WinCC Audit	Yes
Number of Visual Basic Scripts	Yes
Task planner	
time-controlled	Yes
task-controlled	Yes
Message system	
Number of alarm classes	32
Bit messages	
- Number of bit messages	6 000
Analog messages	
— Number of analog messages	200
• S7 alarm number procedure	Yes
System messages HMI	Yes
• System event, more (SIMATIC S7, SINUMERIK, SIMOTION, )	Yes
Number of characters per message	80
<ul> <li>Number of process values per message</li> </ul>	8
Acknowledgment groups	Yes
Message indicator	Yes
Recipe management	
Number of recipes	500
Data records per recipe	1 000
Entries per data record	2 000

Size of internal recipe memory4 MbyteRecipe memory expandableYesVariables4 096Number of variables per device4 096Number of variables per screen400Limit valuesYesMultiplexingYesStructuresYesArraysYesImages750Permanent window/defaultYesGlobal imageYesPop-up imagesYesSlide-in imagesYes	
Variables• Number of variables per device4 096• Number of variables per screen400• Limit valuesYes• MultiplexingYes• MultiplexingYes• ArraysYes• ArraysYes• Number of configurable images750• Permanent window/defaultYes• Global imageYes• Pop-up imagesYes	
• Number of variables per device4 096• Number of variables per screen400• Limit valuesYes• MultiplexingYes• MultiplexingYes• StructuresYes• ArraysYes• ArraysYes• Number of configurable images750• Permanent window/defaultYes• Global imageYes• Pop-up imagesYes	
• Number of variables per screen400• Limit valuesYes• MultiplexingYes• StructuresYes• ArraysYes• ArraysYes• Number of configurable images750• Permanent window/defaultYes• Global imageYes• Pop-up imagesYes	
Limit valuesYesMultiplexingYesStructuresYesArraysYesMumber of configurable imagesYesPermanent window/defaultYesGlobal imageYesPop-up imagesYes	
• MultiplexingYes• StructuresYes• ArraysYesImages750• Permanent window/defaultYes• Global imageYes• Pop-up imagesYes	
• Structures     Yes       • Arrays     Yes       Images     Yes       • Number of configurable images     750       • Permanent window/default     Yes       • Global image     Yes       • Pop-up images     Yes	
• ArraysYesImages750• Number of configurable images750• Permanent window/defaultYes• Global imageYes• Pop-up imagesYes	
Images         • Number of configurable images       750         • Permanent window/default       Yes         • Global image       Yes         • Pop-up images       Yes	
• Number of configurable images750• Permanent window/defaultYes• Global imageYes• Pop-up imagesYes	
• Permanent window/defaultYes• Global imageYes• Pop-up imagesYes	
Global image Yes     Pop-up images Yes	
Pop-up images Yes	
Image selection by PLC Yes	
Image number in the PLC Yes	
Image objects	
Number of objects per image     600	
• Text fields Yes	
• I/O fields Yes	
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     40	
Alarm view Yes	
• Trend view Yes	
User view Yes	
Status/control Yes	
Sm@rtClient view Yes	
Recipe view Yes	
• f(x) trend view Yes	
System diagnostics view Yes	
Media Player     Yes	
HTML browser Yes	
PDF display Yes	
• IP camera display Yes	
• Bar graphs Yes	
• Sliders Yes	
Pointer instruments     Yes	
Analog/digital clock Yes	
Lists	
Number of text lists per project     500	
Number of entries per text list     500	
Number of graphics lists per project     500	
Number of entries per graphics list     500	
Archiving	
Number of archives per device 50	
Number of entries per archive     50 000	
Message archive     Yes	
Process value archive     Yes	
Archiving methods	
- Sequential archive Yes	
- Short-term archive Yes	
Memory location	

	-	
• Paise storage tomst·- CNYes- Nome of user group00Number of user group00Number of user group00• Number of user group00• Passored apportingent00• Passored apportingent00• Passored apportingent00• Passored apportingentVes• Report (phill ng)Ves• StatisticsYes• StatisticsVes• StatisticsVes		
− CSVYes− RDBYesSecurityFNumber of user groups50Number of user groups50SIMATCH Class50SIMATCH ClassYesSIMATCH ClassYesAtamaYesAtamaYesAtamaYesAtamaYesAtamaYesAtamaYesAtamaYesAtamaYesAtamaYesNumber of user groupsYesAtamaYesNumber of user groupsYes <t< td=""><td></td><td>Yes</td></t<>		Yes
−TXTYes−RDBYesBecurity50Number of user groups50Number of user rights30PARMONE of user solutionYes> hassword deconfutionYes>	C C	
IncreaseYesSourcit50Number of user groups50Number of user groups32Number of usersSaladaNumber of usersYesSalaword exportingentYesSalaword exportingentYesSalaword exportingentYesSalaword export groupsYesSalaword (Kobalts) (Kobalt GroupsYes		
Search inversion of user groupsinversion of user groupsinvers		
• Number of user ruphs50• Number of user ruphs32• Number of users50• SubATIC LogonYes• SubATIC LogonYes• Larging brouch printerVes• AlarnsYes• AlarnsYes• AlarnsYes• AlarnsYes• HardcopyYes• HardcopyYes• Electronic print to fileYes• Electronic print to fileYes• Keyboard forts-• USB Sub		Yes
• Number of user ingits32• Number of users50• Password optimipertVas• Deasword optimipertVas• Report (with log)Vas• Stratogo (with log)Vas<	Security	
• Number of users50• Password exportingontYes• SilMATC LogonYes• Larging through printerYes• AlarnsYes• AlarnsYes• AlarnsYes• AlarnsYes• AlarnsYes• AlarnsYes• Electronic print to fileYes• FurtherYes• Electronic print to fileYes• FurtherYes• FurtherY	<ul> <li>Number of user groups</li> </ul>	50
elsassed agodingotYesLogning through homeYes- legot (hitting)Yes- use (hitting)Ye	-	32
• SIMATIC LogonYesLogond brouch primeYes• AarmsYes• AlexsYes• Alexs	Number of users	50
Loggin through printer• AlarmsYes• Report (shift log)Yes• Report (shift log)Yes• InterdopyYes• InterdopyYes• InterdopyYes• InterdopyYes• HerpProFolleUS DPYes• NerpProFolleUS DPYes• NerpProFolleUS DPYes• NerpProFolleUS DPYes• NerpProFolleUS DPYes• NerpProFolleUS DPYes• NerpProFolleUS DPYes• S7-1200Yes• S7-1300Yes• S7-1300Yes• S7-1300Yes• S7-1300Yes• S7-1300Yes• S7-1300Yes• S7-1300Yes• S7-1300Yes• NUMERIKYes• NUMERIKYes• NUMERIKYes• NUMERIKYes• NUMERIKYes• NUMERIKYes• NUMERIKYes• NUMERIKYes• NUMERIKYes• NUMERIK (PDP)Yes• NUMERIK (NOTON)Yes• NUMERIK (Noton) TOPN)Yes• NUMERIK (Noton) TOPN)Yes• NUMERIK (Noton) TOPN)Yes• NUMERIK (Noton		Yes
• AamaYes• Report (shit log)Yes• Lansder: (globownica)Yes• Statis extension (globownica)Yes	SIMATIC Logon	Yes
• Report (shift log)Yes• HardcopyYes PDF, HTMLCharacter sets•• Keybord forls•• US EnglishYes• US EnglishYes• MPP PDFOT ELBUS DPYes• ST-200Yes• ST-200Ye	Logging through printer	
Hardcopy         Yes           • Electronic print for file         Yes, PDF, HTML           • Kayboard forts         Yes           • (spload forts)         Yes           • Upbackidownload)         Yes           • IPH/PROPRIDES DP         Yes           • Isbis         Yes           •	Alarms	Yes
• Electronic print to fileYes; PDF, HTMLCharacter sets	<ul> <li>Report (shift log)</li> </ul>	Yes
Character sets         Kayboard fonts           - US English         Yes           Transfir (upload/download)         -           • MPUPROFIBUS DP         Yes           • ISB         Yes           • Elhemet         Yes           • Elhemet         Yes           • Elhemet         Yes           • S7 1200         Yes           • S7 7 200         Yes           • STADUACO         Yes           • SINUMERIK         Yes           • UGOOI         Yes           • MINO TON         Yes           • MINOTON         Yes           • MIND Fadley (Ern/YeulP)         Yes           • Allen Bradley (DF1)         Yes           • Mindubini (MC TOP/IP)         Yes           • Mindubini (NC TOP/IP)         Yes           • Mindubini (NC TOP/IP)         Yes           • Modion (Modous TOP/IP)         Yes           • OMRON (LINKOMutlink)         Yes           • OMRON (Modous TOP/IP)         Yes	Hardcopy	Yes
• Kaybaar fontsYes- US EnglishYes• MPUPROFIBUS DPYes• MPUPROFIBUS DPYes• SUBYes• SUBYes• EthernetYes• Surg extenal storage mediumYes• Sr 7-1500Yes• Sr 7-1500Yes• Sr 7-200Yes• Si MUNERIKYes• Si MUNERIKYes• Si MUNERIKYes• Si MUNERIKYes• Si MUNERIKYes• Allen Bradler (DF1)Yes• Allen Bradler (DF1)Yes• Matubishi (K7)Yes• MISUNI (MObus TCP/IP)Yes• Modicion (Modbus TCP/IP)Yes• Modicion (Modbus TCP/IP)Yes• Backup/Restore automaticallyYes• Backup/Restore automaticallyYes• Backup/Restore automaticallyYes• Backup/Restore automaticallyYes• Backup/Restore automaticallyYes• Backup/Restore automaticallyYes• Backup/Restore automatically <t< td=""><td>Electronic print to file</td><td>Yes; PDF, HTML</td></t<>	Electronic print to file	Yes; PDF, HTML
—US EnglishYesTransfer (upload/dowinds/Yes-USBYes-USBYes-USBYes-USBYes-USBYes-USBYes-USDYes-S7-1200Yes-S7-1200Yes-S7-200Yes-S7-200Yes-UNACCYes <t< td=""><td>Character sets</td><td></td></t<>	Character sets	
Transfer (uploaddownload)         Yes           • MPUPROFIBUS DP         Yes           • USB         Yes           • Ethemet         Yes           • ST-1500         Yes           • ST-1200         Yes           • ST-1200         Yes           • ST-1200         Yes           • ST-1500         Yes           • ST-200         Yes           • ST-200         Yes           • ST-300/400         Yes           • SIMUMERIK         Yes           • SIMOTION         Yes           • SIMOTION         Yes           • Allen Bradley (EtherNet/IP)         Yes           • Misubishi (FX)         Yes           • Misubishi (FX)         Yes           • Modicon (Modbus)         Yes           • OMRON (UNK/Mutlink)         Yes           • OPC UA Clent         Yes           • OPC UA Server         Yes	Keyboard fonts	
• MPIPROFIBUS DPYes• USBYes• USBYes• Using extenal storage mediumYes• SriconYes• SiMOTIONYes• SiMOTIONYes• SiMOTIONYes• Allen Bradley (Pf1)Yes• Misubishi (KTCPIP)Yes• Misubishi (KTCPIP)Yes• Misubishi (KTCPIP)Yes• OMRON (INN/Multink)Yes• OMRON (INN/Multink)Yes• ORCON (INN/Multink)Yes• OPC UA SaverYes• Orber Ua SaverYes• Backup/Restore manulyYes• Backup/Restore manulyYes• Backup/Restore manulyYes• SimulationYes• Backup/Restore manulyYes• Backup/Restore manulyYes• SimulationYes• SimulationYes <td>— US English</td> <td>Yes</td>	— US English	Yes
•USBYes•ListemetYes•Listemetal storage mediumYes•Process couplingYes•S7-1200Yes•S7-1200Yes•S7-200Yes•S7-300/400Yes•ListemetalYes•ListemetalYes•ListemetalYes•ListemetalYes•ListemetalYes•ListemetalYes•ListemetalYes•ListemetalYes•ListemetalYes•ListemetalYes•ListemetalYes•ListemetalYes•ListemetalYes•ListemetalYes•ListemetalYes•ListemetalYes•ListemetalYes•Allen Bradley (EtherNet/IP)Yes•Misubishi (KS)Yes•Misubishi (KS)Yes		
• EthernetYes• sing external storage mediumYes <b>Process couplen</b> Yes• S7-1200Yes• S7-1500Yes• S7-200Yes• S7-200Yes• S7-200Yes• S7-200Yes• ST-300/400Yes• ST-300/400Yes• SINUMCENKYes• WinACYes• SINUMERIKYes• SINUMERIKYes• SINUMERIKYes• SINUMERIKYes• SINUMERIKYes• SINUMERIKYes• Misubishi (FX)Yes• Allen Bradley (ETh)Yes• Misubishi (FX)Yes• OMRCON (LINK/Multilink)Yes• OMRCON (LINK/Multilink)Yes• OMRON (LINK/Multilink)Yes• OPC UA ClientYes• OPC UA ServerYes• Backup/Restore manuallyYes• Backup/Restore manuallyYes• Backup/Restore manuallyYes• DrinterYesPrinterYes (Up to 2 GBSIMATIC HMI SD memory card: Secure Digital memory cardYes; Up to 2 GBSIMATIC HMI SD memory card: Secure Digital memory cardYes; Up to 16 GBSIMATIC HMI USB stickYes; Up to 8 GBSIMATIC HMI USB stick <td>MPI/PROFIBUS DP</td> <td>Yes</td>	MPI/PROFIBUS DP	Yes
• using external storage medium         Yes           Process coupling	• USB	Yes
Process coupling           • \$7-1200         Yes           • \$7-1200         Yes           • \$7-1500         Yes           • \$7-200         Yes           • \$7-200         Yes           • \$7-200         Yes           • \$7-300400         Yes           • \$7-300400         Yes           • \$100MERIK         Yes           • \$INUMERIK         Yes; With SINUMERIK option package as from WinCC V15 or higher           • \$INUMERIK         Yes; With SINUMERIK option package as from WinCC V15 or higher           • Allen Bradley (EtherNet/IP)         Yes           • Allen Bradley (DF1)         Yes           • Allen Bradley (DF1)         Yes           • Misubish (KZ)         Yes           • OMRON (FINS TCP)         No           • OMRON (LINK/Multilink)         Yes           • Modicon (Modbus TCP/IP)         Yes           • Modicon (Modbus TCP/IP)         Yes           • OPC UA Clent         Yes           • OPC UA Clent         Yes           • Backup/Restore manually         Yes           • Backup/Restore automatically         Yes           • Backup/Restore automatically         Yes           • SimatTiC HMI M memory card: Secure Digital memory card	• Ethernet	Yes
• S7-1200Yes• S7-1500Yes• S7-1500Yes• S7-200Yes• S7-200Yes• S7-200Yes• S7-200Yes• ST-300400Yes• ST-300400Yes• WinACYes• WinACYes• WinACYes• SIMUTENKYes• SIMUTENKYes• SIMUTENKYes• Allen Bradley (DF1)Yes• Allen Bradley (DF1)Yes• Mitsubishi (MC TCP/P)Yes• Mitsubishi (FX)Yes• OMRON (FINS TCP)No• OMRON (FINS TCP)Yes• OMRON (FINS TCP)Yes• OMRON (FINS TCP)Yes• OMRON (FINS TCP)Yes• OPC UA ClientYes• OPC UA ServerYes• OPC UA ServerYes• BackupRestore manuallyYes• Backup	<ul> <li>using external storage medium</li> </ul>	Yes
• S7.1500Yes• S7.200Yes• S7.200Yes• S7.300/400Yes• LGGOIYes• LGGOIYes• WinACYes• SINUMERIKYes; With SINUMERIK option package as from WinCC V15 or higher• SINOTIONYes• Allen Bradley (EtherNet/IP)Yes• Allen Bradley (DF1)Yes• Allen Bradley (DF1)Yes• Mitsubishi (KC TCP/IP)Yes• Mitsubishi (KC TCP/IP)Yes• OMRON (FINS TCP)No• OMRON (FINS TCP)Yes• OMRON (LINK/Mutilink)Yes• OMRON (LINK/Mutilink)Yes• OMCON (LINK/Mutilink)Yes• OPC UA ClientYes• OPC UA ServerYes• Backup/Restore manuallyYes• Backup/Restore manuallyYes• SimulationYes• Device switchoverYes• PrinterYesSimulationYes• SimulationYes• Simulation <td>Process coupling</td> <td></td>	Process coupling	
• S7-200Yes• S7-300/400Yes• LOGOIYes• LOGOIYes• WinACYes• SINUMERIKYes; With SINUMERIK option package as from WinCC V15 or higher• SINDTONYes• Allen Bradley (EhrenVeI/P)Yes• Allen Bradley (ChrenVeI/P)Yes• Mitsubishi (MC TCP/IP)Yes• Mitsubishi (FX)Yes• OMRON (LINK/Multilink)Yes• OMRON (CINS TCP)No• OMRON (CINS TCP)Yes• Modicon (Modbus)Yes• OMCON (Context)Yes• Modicon (Modbus)Yes• OPC UA ClentYes• DPC UA ServerYes• Backup/Restore manuallyYes• Backup/Restore manuallyYes• Backup/Restore automaticallyYes• SimulationYes• Device switchoverYes• Device switchoverYes• SimulationYes• SimulationYes• Device switchoverYes• SimulationYes• Device switchoverYes• SimulationYes• Device switchoverYes• SimulationYes• SimulationYes• Device switchoverYes• SimulationYes• SimulationYes• SimulationYes• Device switchoverYes• SimulationYes• SimulationYes• SimulationYes• SimulationYes•	• S7-1200	Yes
• S7-300/400Yes• LOGOIYes• WinACYes• WinACYes• SINUMERIKYes; With SINUMERIK option package as from WinCC V15 or higher• SINUMERIKYes; With SINUMERIK option package as from WinCC V15 or higher• SINUMERIKYes• Allen Bradley (EtherNet/IP)Yes• Allen Bradley (DF1)Yes• Mitsubishi (MC TCP/IP)Yes• Mitsubishi (MC TCP/IP)Yes• OMRON (FINS TCP)No• OMRON (INK/Multilink)Yes• Modicon (Modbus TCP/IP)Yes• Modicon (Modbus TCP/IP)Yes• Modicon (Modbus TCP/IP)Yes• Modicon (Modbus TCP/IP)Yes• Modicon figuration aidsYes• OPC UA ServerYes• DPC UA ServerYes• DPC UA ServerYes• Backup/Restore automaticallyYes• Backup/Restore automaticallyYes• Device switchoverYes• Device switchoverYes• Device switchoverYes• Device switchoverYes• Divice SwitchoverYes• Di	• S7-1500	Yes
• LOGO!Yes• WinACYes• WinACYes• SINUMERIKYes• SINUTIONYes• Allen Bradley (EtherNet/IP)Yes• Allen Bradley (EtherNet/IP)Yes• Allen Bradley (EtherNet/IP)Yes• Allen Bradley (EtherNet/IP)Yes• Mitsubishi (KC TCP/IP)Yes• Mitsubishi (KC TCP/IP)Yes• Mitsubishi (FX)Yes• OMRON (FINS TCP)No• OMRON (LINK/Mutilink)Yes• OMRON (LINK/Mutilink)Yes• OMRON (LINK/Mutilink)Yes• OMRON (LINK/Mutilink)Yes• OMRON (Modus TCP/IP)Yes• Modicion (Modus)Yes• OPC UA ClientYes• OPC UA ServerYes• Backup/Restore manuallyYes• Backup/Restore manuallyYes• Backup/Restore automaticallyYes• Device switchoverYes• Device switchoverYes <tr< td=""><td>• S7-200</td><td>Yes</td></tr<>	• S7-200	Yes
•WinACYes•SINUMERIKYes; With SINUMERIK option package as from WinCC V15 or higher•SIMOTIONYes•Allen Bradley (Ehenket/IP)Yes•Allen Bradley (DF1)Yes•Mitsubishi (MC TCP/IP)Yes•Mitsubishi (MC TCP/IP)Yes•Mitsubishi (FX)Yes•OMRON (LINK/Muthink)Yes•OMRON (LINK/Muthink)Yes•OMRON (LINK/Muthink)Yes•Odicon (Modbus TCP/IP)Yes•Odicon (Modbus)Yes•Odicon (Modbus)Yes•ORON (LINK/Muthink)Yes•OPC UA ClientYes•OPC UA ClientYes•OPC UA ServerYes•Ordicon (Modbus)Yes•OPC UA ServerYes•OPC UA ServerYes•OPC UA ServerYes•OPC UA ServerYes•ORD (MINH Memory card: Multi Media CardYes•Device switchoverYesPrinterYes•DiriterYes•DiriterYes•SiMATIC HMI M memory card: Secure Digital memory cardYes; Up to 2GB•SiMATIC HMI SD memory card: Secure Digital memory cardYes; Up to 16 GB•SiMATIC HMI USB stickYes; Up to 16 GB•SiMATIC HMI US	• S7-300/400	Yes
• SINUMERIKYes; With SINUMERIK option package as from WinCC V15 or higher• SIMOTIONYes• Allen Bradey (EtherNet/IP)Yes• Allen Bradey (DF1)Yes• Mitsubishi (MC TCP/IP)Yes• Mitsubishi (TS)Yes• OMRON (FINS TCP)No• OMRON (LINK/Multilink)Yes• OMRON (LINK/Multilink)Yes• OMRON (LINK/Multilink)Yes• OMRON (LINK/Multilink)Yes• OMRON (LINK/Multilink)Yes• OMRON (LINK/Multilink)Yes• OPC UA ClientYes• OPC UA ServerYes• DPC UA ServerYes• Backup/Restore manuallyYes• Backup/Restore manuallyYes• Backup/Restore automaticallyYes• Device switchoverYes• PrinterYesPrinterYesSiMATIC HMI Memory card: Multi Media CardYes; Up to 128 MBSiMATIC HMI SD memory card: Secure Digital memory cardYes; Up to 128 MBSiMATIC HMI SD memory card: Secure Digital memory cardYes; Up to 16 GBSiMATIC HMI SD stickYes; Up to 8 GBNichtoreraYes; Up to 8 GBNichtoreratelYes; Up to 8 GB	• LOGO!	Yes
SIMOTIONYesAllen Bradley (EtherNet/IP)YesAllen Bradley (DF1)YesAllen Bradley (DF1)YesMitsubishi (MC TCP/IP)YesMitsubishi (MC TCP/IP)YesOMRON (FINS TCP)NoAllen dotubut TCP/IP)YesModicon (Modbus TCP/IP)YesOPC UA ClientYesOPC UA ClientYesOPC UA ClientYesBackup/Restore nanuallyYesBackup/Restore automaticallyYesBackup/Restore automaticallyYesSimulationYesPortpherals/OptionsYesPrinterYesPinterYesSimulationYes; Up to 128 MBSimulationYes; Up to 16 GBSimulationYes; Up to 16 GBSimulationYes; Up to 8 GBSimulati	WinAC	Yes
SIMOTIONYesAllen Bradley (EtherNet/IP)YesAllen Bradley (DF1)YesAllen Bradley (DF1)YesMitsubishi (MC TCP/IP)YesMitsubishi (MC TCP/IP)YesOMRON (FINS TCP)NoAllen dotubut TCP/IP)YesModicon (Modbus TCP/IP)YesOPC UA ClientYesOPC UA ClientYesOPC UA ClientYesBackup/Restore nanuallyYesBackup/Restore automaticallyYesBackup/Restore automaticallyYesSimulationYesPortpherals/OptionsYesPrinterYesPinterYesSimulationYes; Up to 128 MBSimulationYes; Up to 16 GBSimulationYes; Up to 16 GBSimulationYes; Up to 8 GBSimulati	• SINUMERIK	Yes; With SINUMERIK option package as from WinCC V15 or higher
Allen Bradiey (EtherNet/IP)YesAllen Bradley (DF1)YesMitsubishi (MC TCP/IP)YesMitsubishi (MC TCP/IP)YesOMRON (FINS TCP)NoOMRON (INS TCP)YesModicon (Modbus TCP/IP)YesModicon (Modbus TCP/IP)YesModicon (Modbus)YesOMRON (LINK/Multilink)YesOMRON (Ether Street)YesModicon (Modbus)YesOPC UA ClientYesOPC UA ServerYesBackup/Restore manuallyYesService tools/configuration aldsYesPrinterYesPrinterYesSimulationYesSimulationYesSiMATIC HMI MS memory card: Multi Media CardYes (Jup to 128 MBSIMATIC HMI MS memory card: Secure Digital memory cardYes (Jup to 128 MBSIMATIC IPC USB Flashdrive (USB stick)Yes (Jup to 16 GBSIMATIC IPM USB stickYes (Jup to 16 GBSIMATIC IPM USB stickYes (Jup to 8 GBNetwork cameraYesMethanics/meterialYes (Jup to 8 GB		
Allen Bradley (DF1)YesMitsubishi (MC TCP/IP)YesMitsubishi (KX)YesMitsubishi (FX)NoOMRON (FINS TCP)NoOMRON (LINK/Multilnik)YesModicon (Modbus) TCP/IP)YesModicon (Modbus)YesOPC UA ClientYesOPC UA ClientYesService tools/configuration aidsYesService tools/configuration aidsYesBackup/Restore anunallyYesBackup/Restore anunallyYesSimulationYesSimulationYesSimulationYesSimulationYesSiMATIC HMI MM memory card: Multi Media CardYesSiMATIC HMI MM memory card: Secure Digital memory cardYesSiMATIC HMI MS Elashdrive (USB stick)YesSiMATIC IHMI USB stickYesSiMATIC IHMI USB stickYesNetwork cameraYesNetwork cameraYesMethanics/materialYes	Allen Bradley (EtherNet/IP)	Yes
Mitsubishi (MC TCP/IP)YesMitsubishi (FX)YesOMRON (FINS TCP)NoOMRON (LINK/Multilink)YesModicon (Modbus TCP/IP)YesModicon (Modbus TCP/IP)YesOPC UA ClientYesOPC UA ClientYesOPC UA ServerYesService tools/configuration aidsYesService tools/configuration aidsYesBackup/Restore manuallyYesBackup/Restore automaticallyYesService tools/configuration aidsYesService tools/configuration aidsYesService tools/configuration aidsYesService tools/configuration aidsYesService tools/configuration aidsYesService tools/configuration aidsYesSimulationYesDevice switchoverYesPrinterYesSiMATIC HMI MM memory card: Multi Media CardYes; Up to 128 MBSIMATIC HMI MM memory card: Secure Digital memory cardYes; Up to 2 GBSIMATIC IPC USB Flashdrive (USB stick)Yes; Up to 16 GBSIMATIC IPC USB Flashdrive (USB stick)Yes; Up to 16 GBSIMATIC HMI USB stickYes; Up to 8 GBNetwork cameraYesMechanics/materialYes		
• Mitsubishi (FX)Yes• OMRON (FINS TCP)No• OMRON (LINK/Multilink)Yes• Modicon (Modbus TCP/IP)Yes• Modicon (Modbus)Yes• OPC UA ClientYes• OPC UA ClientYes• OPC UA ServerYes• OPC UA ServerYes• Backup/Restore manuallyYes• Backup/Restore manuallyYes• Backup/Restore manuallyYes• Backup/Restore automaticallyYes• Device switchoverYesParipherats/OptionsYesSimulationYes• Device switchoverYesPrinterYesSiMATIC HMI Mm memory card: Multi Media CardYes; Up to 128 MBSIMATIC HMI Sp memory card: Secure Digital memory cardYes; Up to 2 GBSIMATIC HMI Sp memory card: Secure Digital memory cardYes; Up to 16 GBSIMATIC IPC USB Flashdrive (USB stick)Yes; Up to 16 GBSIMATIC IPC USB Flashdrive (USB stick)Yes; Up to 16 GBSIMATIC HMI USB stickYes; Up to 8 GBNetwork cameraYesMechanics/materialYes	• • •	
• OMRON (FINS TCP)No• OMRON (LINK/Multilink)Yes• Modicon (Modbus TCP/IP)Yes• Modicon (Modbus)Yes• Modicon (Modbus)Yes• OPC UA ClientYes• OPC UA ServerYesService tools/configuration aidsYes• Backup/Restore manuallyYes• Backup/Restore manuallyYes• Backup/Restore automaticallyYes• Backup/Restore automaticallyYes• Device switchoverYesPrinterYesPrinterYesSIMATIC HMI MM memory card: Multi Media CardYes; Up to 128 MBSIMATIC HMI CF memory card: Secure Digital memory cardYes; Up to 2 GBSIMATIC IPC USB Flashdrive (USB stick)Yes; Up to 16 GBSIMATIC IPC USB Flashdrive (USB stick)Yes; Up to 8 GBNetwork cameraYesMechanics/materialYes		
• OMRON (LINK/Multilink)Yes• Modicon (Modbus TCP/IP)Yes• Modicon (Modbus)Yes• Modicon (Modbus)Yes• OPC UA ClientYes• OPC UA ServerYes• OPC UA ServerYes• Backup/Restore manuallyYes• Backup/Restore automaticallyYes• Device switchoverYes• Device switchoverYes• Device switchoverYes• Device switchoverYes• DifferenceYes• SIMATIC HMI Mmemory card: Multi Media CardYes; Up to 128 MB• SIMATIC HMI SD memory card: Secure Digital memory cardYes; Up to 2 GB• SIMATIC HMI CF memory card Compact Flash CardNo• USB memoryYes; Up to 16 GB• SIMATIC IPC USB Flashdrive (USB stick)Yes; Up to 16 GB• SIMATIC HMI USB stickYes; Up to 8 GB• Network cameraYes• Mechanics/materialYes		
• Modicon (Modbus TCP/IP)Yes• Modicon (Modbus)Yes• OPC UA ClientYes• OPC UA ServerYes• OPC UA ServerYes• Backup/Restore manuallyYes• Backup/Restore automaticallyYes• Backup/Restore automaticallyYes• Backup/Restore automaticallyYes• Backup/Restore automaticallyYes• Backup/Restore automaticallyYes• Backup/Restore automaticallyYes• Device switchoverYes• SIMATIC HMI M memory card Compact Flash CardNo• USB memoryYes• SIMATIC HMI USB stickYes• NoYes<		
• Modicon (Modbus)Yes• OPC UA ClientYes• OPC UA ServerYes• OPC UA ServerYes• Backup/Restore manuallyYes• Backup/Restore manuallyYes• Backup/Restore automaticallyYes• Backup/Restore automaticallyYes• Backup/Restore automaticallyYes• Device switchoverYes• SIMATIC HMI M memory card Compact Flash CardNo• USB Flashdrive (USB stick)Yes• NoYes• NoYes </td <td></td> <td></td>		
• OPC UA ClientYes• OPC UA ServerYesService tools/configuration aids• Backup/Restore manuallyYes• Backup/Restore automaticallyYes• Backup/Restore automaticallyYes• SimulationYes• Device switchoverYesPrintersYesSIMATIC HMI MM memory card: Multi Media CardYes; Up to 128 MBSIMATIC HMI SD memory card: Secure Digital memory cardYes; Up to 2 GBSIMATIC HMI CF memory card Compact Flash CardNoUSB memoryYesSIMATIC IPC USB Flashdrive (USB stick)Yes; Up to 16 GBSIMATIC HMI USB stickYes; Up to 8 GBNetwork cameraYesMechanics/materialYes		
• OPC UA ServerYesService tools/configuration aids• Backup/Restore manuallyYes• Backup/Restore automaticallyYes• SimulationYes• Device switchoverYesPeripherals/OptionsYesPrinterYes; Up to 128 MBSIMATIC HMI MM memory card: Multi Media CardYes; Up to 128 MBSIMATIC HMI CF memory card: Secure Digital memory cardYes; Up to 2 GBSIMATIC HMI CF memory card Compact Flash CardNoUSB memoryYes; Up to 16 GBSIMATIC HMI USB stickYes; Up to 16 GBSIMATIC HMI USB stickYes; Up to 8 GBNetwork cameraYesMechanics/materialYes		
Service tools/configuration aids            Backup/Restore manually         Backup/Restore automatically         Shackup/Restore automatically         Simulation         Simulation         Simulation         Device switchover         Yes         Device switchover         Yes         Peripherals/Options         Printer         Yes         SIMATIC HMI Mm memory card: Multi Media Card         Yes; Up to 128 MB         SIMATIC HMI SD memory card: Secure Digital memory card         Yes; Up to 2 GB         SIMATIC HMI CF memory card Compact Flash Card         No         USB memory         Yes         SIMATIC IPC USB Flashdrive (USB stick)         Yes; Up to 16 GB         SIMATIC HMI USB stick         Yes; Up to 8 GB         Network camera         Yes         Hertantics/material		
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Backup/Restore automaticallyYesSimulationYesDevice switchoverYesPeripherals/OptionsYesPrinterYes; Up to 128 MBSIMATIC HMI Mm memory card: Multi Media CardYes; Up to 128 MBSIMATIC HMI SD memory card: Secure Digital memory cardYes; Up to 2 GBSIMATIC HMI CF memory card Compact Flash CardNoUSB memoryYes; Up to 16 GBSIMATIC HMI USB stickYes; Up to 8 GBNetwork cameraYes; Up to 8 GBMechanics/materialYes		Vac
• SimulationYes• Device switchoverYesPeripherals/OptionsPrinterYesSIMATIC HMI MM memory card: Multi Media CardYes; Up to 128 MBSIMATIC HMI SD memory card: Secure Digital memory cardYes; Up to 2 GBSIMATIC HMI CF memory card Compact Flash CardNoUSB memoryYesSIMATIC IPC USB Flashdrive (USB stick)Yes; Up to 16 GBSIMATIC HMI USB stickYes; Up to 8 GBNetwork cameraYesMechanics/material		
• Device switchover       Yes         Peripherals/Options       Yes         Printer       Yes         SIMATIC HMI MM memory card: Multi Media Card       Yes; Up to 128 MB         SIMATIC HMI SD memory card: Secure Digital memory card       Yes; Up to 2 GB         SIMATIC HMI CF memory card Compact Flash Card       No         USB memory       Yes         SIMATIC IPC USB Flashdrive (USB stick)       Yes; Up to 16 GB         SIMATIC HMI USB stick       Yes; Up to 8 GB         Network camera       Yes		
Peripherals/Options       Yes         Printer       Yes; Up to 128 MB         SIMATIC HMI MM memory card: Multi Media Card       Yes; Up to 128 MB         SIMATIC HMI SD memory card: Secure Digital memory card       Yes; Up to 2 GB         SIMATIC HMI CF memory card Compact Flash Card       No         USB memory       Yes         SIMATIC IPC USB Flashdrive (USB stick)       Yes; Up to 16 GB         SIMATIC HMI USB stick       Yes; Up to 8 GB         Network camera       Yes		
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SIMATIC HMI MM memory card: Multi Media CardYes; Up to 128 MBSIMATIC HMI SD memory card: Secure Digital memory cardYes; Up to 2 GBSIMATIC HMI CF memory card Compact Flash CardNoUSB memoryYesSIMATIC IPC USB Flashdrive (USB stick)Yes; Up to 16 GBSIMATIC HMI USB stickYes; Up to 8 GBNetwork cameraYes		
SIMATIC HMI SD memory card: Secure Digital memory card       Yes; Up to 2 GB         SIMATIC HMI CF memory card Compact Flash Card       No         USB memory       Yes         SIMATIC IPC USB Flashdrive (USB stick)       Yes; Up to 16 GB         SIMATIC HMI USB stick       Yes; Up to 8 GB         Network camera       Yes		
SIMATIC HMI CF memory card Compact Flash Card       No         USB memory       Yes         SIMATIC IPC USB Flashdrive (USB stick)       Yes; Up to 16 GB         SIMATIC HMI USB stick       Yes; Up to 8 GB         Network camera       Yes	· · · · · · · · · · · · · · · · · · ·	
USB memory     Yes       SIMATIC IPC USB Flashdrive (USB stick)     Yes; Up to 16 GB       SIMATIC HMI USB stick     Yes; Up to 8 GB       Network camera     Yes		
SIMATIC IPC USB Flashdrive (USB stick)     Yes; Up to 16 GB       SIMATIC HMI USB stick     Yes; Up to 8 GB       Network camera     Yes		
SIMATIC HMI USB stick     Yes; Up to 8 GB       Network camera     Yes       Mechanics/material     Yes		
Network camera         Yes           Mechanics/material		
Mechanics/material		
		Yes
Enclosure material (front)		
	Enclosure material (front)	

Plastic     N	No
• Aluminum Ye	fes
Stainless steel	No
imensions	
Width of the housing front     48	183 mm
Height of housing front 33	337 mm
Mounting cutout, width 46	465 mm
Mounting cutout, height 3*	319 mm
Overall depth 73	73.2 mm
Weights	
Weight (without packaging) 5.	5.6 kg
Mounting cutout, width       46         Mounting cutout, height       37         Overall depth       73         /eights       74	465 mm 319 mm 73.2 mm

last modified:

8/8/2024 🖸