## SIEMENS

## Data sheet

## 6AV2124-0JC01-0AX0

SIMATIC HMI TP900 Comfort, Comfort Panel, touch operation, 9" widescreen TFT display, 16 million colors, PROFINET interface, MPI/PROFIBUS DP interface, 12 MB configuration memory, Windows CE 6.0, configurable from WinCC Comfort V11



General information	
Product type designation	TP900 Comfort
Display	
Design of display	TFT
Screen diagonal	9 in
Display width	195 mm
Display height	117 mm
Number of colors	16 777 216
Resolution (pixels)	
<ul> <li>Horizontal image resolution</li> </ul>	800 pixel
<ul> <li>Vertical image resolution</li> </ul>	480 pixel
Backlighting	
<ul> <li>MTBF backlighting (at 25 °C)</li> </ul>	80 000 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
<ul> <li>Keys with LED</li> </ul>	No
<ul> <li>System keys</li> </ul>	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>DP direct LEDs (LEDs as S7 output I/O)</li> </ul>	
— F1Fx	0
<ul> <li>Direct keys (keys as S7 input I/O)</li> </ul>	
— F1Fx	0
<ul> <li>Direct keys (touch buttons as S7 input I/O)</li> </ul>	40
Installation type/mounting	
Mounting position	vertical
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

	2414
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)	0.75 A
Starting current inrush I <sup>2</sup> t	0.5 A²·s
Power	
Active power input, typ.	18 W
Processor	
Processor type	X86
Memory	
Flash	Yes
RAM	Yes
Memory available for user data	12 Mbyte
Type of output	
Info LED	No
Power LED	No
Error LED	No
Acoustics	
Buzzer	No
Speaker	Yes
Time of day	
Clock	
Hardware clock (real-time)	Yes
Software clock	Yes
retentive	Yes; Back-up duration typically 6 weeks
synchronizable	Yes
Interfaces	
Number of industrial Ethernet interfaces	1; 2 ports (switch)
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
• USB Mini B	1; 5-pole
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>	2
<ul> <li>Number of ports of the integrated switch</li> </ul>	2
Protocols	
PROFINET	Yes
Supports protocol for PROFINET IO	Yes
IRT	Yes; As of WinCC V12
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

222	N
• CSS	Yes
Active X	Yes
• JavaScript	Yes
• Java VM	No
Redundancy mode	
Media redundancy	
— MRP	Yes; As of WinCC V12
Further protocols	
• CAN	No
• MODBUS	Yes
Interrupts/diagnostics/status information	
Diagnoses	N 07 1 1
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
<ul> <li>Limit class B, for use in residential areas</li> </ul>	No
Degree and class of protection	
IP (at the front)	IP65
IP (rear)	IP20
NEMA (front)	
<ul> <li>Enclosure Type 4 at the front</li> </ul>	Yes
Enclosure Type 4x at the front	Yes
Standards, approvals, certificates	
CE mark	Yes
cULus	Yes
RCM (formerly C-TICK)	Yes
KC approval	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
<ul> <li>cULus Class I Zone 2, Division 2</li> </ul>	Yes
FM Class I Division 2	Yes
Marine approval	
Germanischer Lloyd (GL)	Yes
<ul> <li>American Bureau of Shipping (ABS)</li> </ul>	Yes
Bureau Veritas (BV)	Yes
<ul> <li>Det Norske Veritas (DNV)</li> </ul>	Yes
Lloyds Register of Shipping (LRS)	Yes
Nippon Kaiji Kyokai (Class NK)	Yes
Polski Rejestr Statkow (PRS)	No
Ambient conditions	
Suited for indoor use	Yes
Suited for outdoor use	No
Ambient temperature during operation	
Operation (vertical installation)	
— For vertical installation, min.	0 °C
— For vertical installation, max.	50 °C; (55 °C, see entry ID: 64847814)
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 (may tilt angle portrait format)	
Operation (max. tilt angle, portrait format)	
— At maximum tilt angle, min.     — At maximum tilt angle, max.	0 °C 35 °C

Interface part of the second	Ambient temperature during storage/transportation	
• oar00 °GRestrice huming00 °G• of peration, max.00 %, no condensationOperation fiscalNopreditation fiscalVesorindipartical fiscalVescondipartical fiscalVesCondipartical fiscalVesProcess via de data data variability (output)YesProcess via de data variability (output)YesProcess via de data variability (output)YesProcess via de data variability (output)NoProcess via de data variability (output)No• NinCo Nation KontoNo• NinCo Nation KontoNo• NinCo Ration KontoNo• NinCo Ration KontoNo• NinCo Ration KontoNo• NinCo Ration (TA Portal)No• NinCo Candiparation KontoNo• NinCo Candiparation KontoYes, from V11• NinCo Candiparation KontoYes, from V11• NinCo Candiparation KontoYes• NinCo Candiparation KontoYes• Ninther of online/name languagesYes• Ninther of online/name languagesYes• Ninther of online/name languagesYes• Ninther of online/name languagesYes• Ninther of alum casesYes• Ninther of alum casesYes• Ninther of alum casesYes<		-20 °C
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• Operation mo:90 % ph 0 condensationOperating systemNopre-installed operating systemYes• Window CEYesconfiguration headerYesMessage indicationYesAlarm system (ind. buffer and acknowlodgment)YesProcess value defaul (input) possibleYesProcess value defaul (input) possibleYesProcess value defaul (input) possibleYesProcess value defaul (input) possibleNo• STEP 7 Pasic (TLP Portal)No• WinCC Reades StandardNo• WinCC Confor (TLP Portal)No• WinCC Confor (TLP Portal)Yes; from V11• W	· · ·	
Operational system         Not           proprietary         Not                • Windows CE             • Ves             • Configuration / Ned          Yes                 • Windows CE          Yes                 • Windows CE          Yes                 • Manage indicato          Yes                 • Process value disply (opty)          Yes                 • Configuration / Necto          Yes                 • WinCC Facil (TA Portal)          No                 • WinCC Condit (TIA Portal)          Yes, from Y11                 • WinCC Condit (TIA Portal)          Yes, from Y11                 • WinCC Condit (TIA Portal)          Yes		90 %: no condensation
projentary         No           projentation/ header         Yes           configuration / header         Yes           Atam system (incl. buffer and acknowledgmen)         Yes           Process value diaply (output)         Yes           Configuration Solve         No           VinCC Fraction (TA Portal)         No           VinCC Facible Sonandard         No           VinCC Facible Solve         Yes, from V11           VinCC Condict (TIA Portal)         Yes           VinCC Condict (TIA Portal)         Yes           VinCC Condict (TIA Portal)         Yes           VinCla Solve         Yes           Vince Condict (TIA Portal)         Yes           Vinde Vinfo (Cita Portal)<	• •	30 %, 10 Condensation
image and catalog system           • Windows CE           • Sign and catar           Atam system (inclustor)           • Yes           Process value disploy (outyn)           • Yes           Process value disploy (outyn)           • Site P 7 Basis (TA Portal)           • WinCC finicite Compact           • WinCC finicite Compact           • WinCC finicite Compact           • WinCC finicite Compact           • WinCC finicite Advanced           • Wint Finicite Advanced           • Wint Finic Advanced		No
• Yesconfiguration / hasderYesConfiguration / hasderYesAarm system (not. buffer and acknowledgment)YesProcess value delapie (notput)YesProcess value delapie (notput)YesProcess value delapie (notput)YesConfiguration softwareYesConfiguration softwareYes• TEP / Basic (TA Portal)No• NinCC floable CompactNo• NinCC floable CompactNo• NinCC floable SandardNo• NinCC floable Advanced (TA Portal)No• NinCC floable Advanced (TA Portal)Yes, from V11• NinCC Advanced (TA Portal)Yes• Nince Advanced (TA Portal)Yes• Onne languagesYes• Longuages per projectYes• Longuages per projectYes• Onne languagesYes• Advanced (TA Portal)Yes• None for Ninde Yinde (Yes• Advanced (TA Portal)Yes• Advanced (TA Portal)Yes• Advanced (TA Portal)Yes• None for Ninde SaverYes• Advanced (TA Portal)Yes• Advanced (TA Portal)Yes• No		NO
configuration / header         Yes           Message indicator         Yes           Aarm system (nd. Luffer and acknowledgment)         Yes           Process value display (output)         Yes           Process value display (output)         Yes           Configuration software         Yes           Configuration software         Yes           Configuration software         No           • STEP 7 Disals (TIA Portal)         No           • WinCC Encible Compact         No           • WinCC Encible Standard         No           • WinCC Encible Standard         No           • WinCC Encible Standard         No           • WinCC Encible Advanced (TA Portal)         Yes, from V11           • WinCC Chroth (TA Portal)         Yes, from V11           • WinCC Chrothest Advanced (TA Portal)         Yes, from V11           • WinCC Chrothest Interfurme languages         32           Protestionality under WinEC (TA Portal)         Yes           • Web Drovser         Yes           • Wohn Protestionality under WinEC (TA Portal)         Yes           • Web Drovser         Yes           • None WinEC Protestionality under WinEC (TA Portal)         Yes           • Decibet Scell         Yes           • Orothestanguages		
Message Indicator         Yes           Aam system (ind. buffer and acknowledgment)         Yes           Process value display (output)         Yes           Process value display (output)         Yes           Configuration software         Yes           • STEP 7 Professional (TIA Portal)         No           • STEP 7 Stasic (TIA Portal)         No           • WinCC flexible Standard         No           • WinCC Constol (TIA Portal)         Yes, from V11           • WinCC Constol (TIA Portal)         Yes, from V11           • WinDC Control (TIA Portal)         Yes, from V11           • WinD Constol (TIA Portal)         Yes, from V11           • Ungages         22           • Collins languages         23           • Folder languages         24           • Applications/optons         Yes           • Meb Dowser         Yes           • Poolet Word         Yes           • Poolet Word         Yes           • Balance folin masses		Yes
Aam system (incl. buffer and acknowledgment)         Yes           Process value display (cupu)         Yes           Process value display (cupu)         Yes           Configuration software         Yes           Configuration software         Yes           Configuration software         No           • STEP 7 Professional (TIA Portal)         No           • WinCC Reside Advanced         No           • WinCC Reside Advanced (TIA Portal)         Yes; from V11           • WinCC Professional (TIA Portal)         Yes; from V11           • WinCC Professional (TIA Portal)         Yes; from V11           • WinCC Reside WinCC (TIA Portal)         Yes; from V11           • WinCC Reside WinCC (TIA Portal)         Yes; from V11           • WinCC Reside WinCC (TIA Portal)         Yes; from V11           • Project languages         Yes           • Advancet WinCC (TIA Portal)         Yes; from Y11           • Project languages         Yes           • Advancet WinCC (TIA Portal)         Yes		
Process value dejaply (opud)         Yes           Process value dejaply (opud) possible         Yes           Configuration software         Yes           Configuration software         No           • STEP 7 Professional (TA Portal)         No           • WINC C fiesble Standad         No           • WINC C fiesble Advanced         No           • WINC C Stass (TA Portal)         Yes; from V11           • WINC C Desistonal (TA Portal)         Yes; from V11           • WINC C Professional (TA Portal)         Yes; from V11           • WINC Professional (TA Portal)         Yes           • Number of online/undime languages         32           • Professional (TA Portal)         Yes           • Number of online/undime languages         Yes           • Obside Word         Yes           • Number of online/undime languages         Yes           • Professional (TA Portal)		
Process value default (input) possible         Yes           Recipe management         Yes           Configuration software         No           • STEP 7 Professional (TR Portal)         No           • STEP 7 Professional (TR Portal)         No           • WINCC flexible Compact         No           • WINCC flexible Advanced         No           • WINCC Exible Advanced         Yes, from V11           • WINCC Exible Advanced         Yes, from V11           • WINCC Control (TIA Portal)         Yes, from V11           • WINCC Control (TIA Portal)         Yes, from V11           • WINCC Control (TIA Portal)         Yes, from V11           • Reguesse         Yes           • Project Ianguages         Yes           • Languages per project         32           • Project WindC (TIA Portal)         Yes           • Number of Information (Signame         Yes           • Neb browser         Yes           • Neb tron Signame         Yes           • Neb tron Y		
Recipe management     Yes       Configuration software     •       • STEP 7 Professional (TA Portal)     No       • Winc C Excible Compact     No       • Winc C Excible Advanced     No       • Winc C Advanced (TA Portal)     Yes; from V11       • Winc C Advanced (TA Portal)     Yes; from V11       • Winc C Professional (TIA Portal)     Yes; from V11       • Winc C Excil     Yes; from V11       • Winc C Ortrof C (TI Portal)     Yes; from V11       • Winc C Excil     Yes       • Project languages     32       • Project Word     Yes       • Project Word     Yes       • Pools: Word C (TI Portal)     Yes       • Pools: Word C Mult     Yes       • Project Word C Yes     Yes       • Pools: Word C Mult     Yes       • Number of align messages     Yes       • SilvATIC Wind C Mult     Yes       • Number of align messages     Yes       • Number of align messages     Yes       • Number of align messages     Yes   <		
Conjunction software• STEP 7 Boilsonal (TA Portal)No• WINCC flexible SandardNo• WINCC flexible SandardNo• WINCC flexible AdvancedNo• WINCC flexible AdvancedNo• WINCC flexible AdvancedNo• WINCC flexible AdvancedNo• WINCC Confort (TA Portal)Yes; from V11• WINCC Advanced (TA Portal)Yes; from V11• WINCC Marce (TA Portal)Yes; from V11• WINCC Marce (TA Portal)Yes; from V11• Number of Infinorumine languages32• Project languagesYes• Adplications/optionsYes• Portale WINCC (TA Porta)Yes• Portale WINCC (TA Porta)Yes• Portale ExcelYes• Munber of Visual Basic ScriptsYes• Number of aliant classesYes• Number of aliant classesYes<		Yes
• STEP 7 Basic (TIA Porta)No• STEP 7 Professional (TIA Porta)No• WinCC Existie StinadardNo• WinCC Existie StinadardNo• WinCC Existie StinadardNo• WinCC Eastie (TIA Porta)No• WinCC Castie (TIA Porta)Yes; from V11• WinCC Comfort (TIA Porta)Yes; from V11• WinCC State (TIA Porta)Yes; from V11• WinCC Existies StateYes; from V11• WinCC State (TIA Porta)Yes; from V11• WinCC State (TIA Porta)Yes; from V11• Wince Or Inine/nutime languages32• Number of online/nutime languagesYes• Number of State (TIA Porta)Yes• LibratesYes• Pocket WordYes• Pocket WordYes• Pocket ExcelYes• Pocket ExcelYes• Number of Visual Basi: ScriptsYes• Number of State Basic ScriptsYes• Number of State Basic ScriptsYes• Number of Indianesses20• Pocket BasiceYes• Number of IndianessesYes• Number of IndianessesYes <td>Recipe management</td> <td>Yes</td>	Recipe management	Yes
• STEP 7 Professional (TIA Portal)No• WinCC Riscible StandardNo• WinCC Riscible StandardNo• WinCC Riscible StandardNo• WinCC Contor (TIA Portal)Yes; from V11• WinCC Professional (TIA Portal)Yes; from V11• WinCC Marker32• Profestional (TIA Portal)Yes• Number of Near WinCC (TI Portal)Yes• Web browserYes• Profestive WordYes• Pocket WordYes• Pocket WordYes• Pocket ExcelYes• Media PlayerYes• Mumber of Near SortplsYes• Number of naisengaes20• Analog messages20• Analog messages200• Analog messages200• System newed, message MIMYes• Number of naisengaes80• Number of naisengaes80 </td <td>Configuration software</td> <td></td>	Configuration software	
•WinCC fexible CompactNo•WinCC fexible StandardNo•WinCC Exible AdvancedNo•WinCC Easie (TIA Portal)Yes; from V11•WinCC Advanced (TIA Portal)Yes; from V11•WinC Advance (TIA Portal)Yes; from V11•Winc Advance (TIA Portal)Yes; from V11•Winc Advance (TIA Portal)Yes; from Yes;	<ul> <li>STEP 7 Basic (TIA Portal)</li> </ul>	No
• WinCC flexible StandardNo• WinCC Exible StandardNo• WinCC Canfort (TIA Portal)No• WinCC Advanced (TIA Portal)Yes; from V11• WinCC Advanced (TIA Portal)Yes; from V11• WinCC Portessional (TIA Portal)Yes; from V11• WinCC Advanced (TIA Portal)Yes; from V11• WinCC Advanced (TIA Portal)Yes; from V11• WinCC Advanced (TIA Portal)Yes; from V11• Under of online/runtime languages32• Project languages32• Indicator of online/runtime languages32• Project languagesYes; from V11• Under WinCC (TA Portal)Yes• Under WinCC (TA Portal)Yes• Under WinCC (TA Portal)Yes• Project languagesYes• Project languagesYes• Project ExcelYes• Project ExcelYes• Project WordYes• Number of WinCC Sing/riferverYes• SIMATIC WinCC Canger(Server)Yes• SiMATIC WinCC CanditYes• Number of Islam classes32• Sili InessagesYes• Number of alam classes32• Number of Islam sesagesYes• Number of Islam classes32• Sili InessagesYes• Number of Islam classes32• Number of Islam classes32• Sili InessagesYes• Number of Islam classes32• Sili Inessages HIMYes• Sili Inessages HIMYes• System mensegages	<ul> <li>STEP 7 Professional (TIA Portal)</li> </ul>	No
• WinCC flexible AdvancedNo• WinCC Confort (TIA Porta)Yes; from V11• WinCC Advanced (TIA Porta)Yes; from V11• WinCC Advanced (TIA Porta)Yes; from V11• WinCC Advanced (TIA Porta)Yes; from V11• WinCC Indesian (TIA Porta)Yes; from V11• WinCC Professional (TIA Porta)2• Runber of online/runtime languages32• Number of online/runtime languages32• WinCC (TIA Porta)Yes• Under WinCC (TIA Porta)Yes• Winder WinCC (TIA Porta)Yes• Web browserYes• Pocket ExcelYes• Pocket ExcelYes• Pocket ExcelYes• Pocket ExcelYes• Web browserYes• Pocket ExcelYes• Winde PayerYes• Winde I PayerYes• Media PlayerYes• Montal PayerYes• Number of Visual Basic ScriptsYes• Media PlayerYes• Number of Ialm classes22• Rit messagesYes• Number of alam classes22• Rit messagesYes• Number of alam classes20• Stal Tot more (SIMATIC ST, SINUMERIK, SIMOTICN , N)Yes• Number of characters per message80• Number of characters per message80 <td>WinCC flexible Compact</td> <td>No</td>	WinCC flexible Compact	No
• WinCC Basic (TIA Portal)No• WinCC Combot (TIA Portal)Yes; from V11• WinCC Advanced (TIA Portal)Yes; from V11• WinCC Professional (TIA Portal)Yes; from V11• Burne Gast32• Number of online/runtime languages32• Number of online/runtime languages32• Register StrainYes• Languages per projed32• Rundseg sper projed32• Rundseg sper projed32• Rundseg sper projed32• Rundseg sper projed32• Web browserYes• Number of IA Portal)Yes• Web browserYes• Number of StrainYes• Pocket WordYes• Pocket ExcelYes• Number of StrainYes• SiMATIC WinCC AuditYes• Number of Visual Basic ScriptsYes• Number of Islam classes32• SiMATIC WinCC StrainYes• Number of Islam classes32• Number of Islam scages4000• Number of Islam number procedureYes• Number of Islam number procedureYes• Number of Islam scages60• Number of Islanceters per mes	WinCC flexible Standard	No
• WinCC Comfort (TIA Portal)Yes; from V11• WinCC Advanced (TIA Portal)Yes; from V11• LanguagesYes; from V11Languages32Prolet languages32• Number of online/runtime languages32• Languages project32• Languages project92• Languages projectYes• Web browserYes• Web browserYes• Pocket KorelYes• Pocket KorelYes• Pocket KorelYes• Number of balayYes• Number of balagesYes• Number of balagesYes• SiMATIC WinCC San@rtServerYes• SiMATIC WinCC AdutYes• Number of VisuedYes• Itime-controlledYes• Itime-controlledYes• Itime-controlledYes• Number of alam classes32• Bit messagesYes• Number of alam classes32• Sister of bit messagesYes• Number of alam classes200• System messages HMIYes• Number of alam number procedureYes• System messages HMIYes• System messages HMIYes• Number of of processages80• Number of of processage8• Number of of processages80• Number of processages80• Number of processages8• Number of processages8• Number of processages8• Number of processages8<	WinCC flexible Advanced	No
• WinCC Advanced (TIA Portal)Yes; from V11• WinCC Professional (TIA Portal)Yes; from V11• Languages32• Languages32Project languages32• Languages per project32• Languages per project32• Languages per project32• Languages per project42• LibrariesYes• Veb browserYes• Pocket KvordYes• Pocket ExcelYes• Pocket ExcelYes• Number of Visual Basic ScriptsYes• Number of Visual Basic Scripts22• Number of Visual Basic Scripts22• Number of alam classes32• SiMATIC WinCC AuditYes• Number of alam classes32• SiMATIC WinCC Sulfit CST, SINUMERIK, SiMATIC N, SINUMERIK, SiMATIC N, SINUMERIK, SiMATIC N, SINUMERIK, SiNUTON, SINUMERIK, Sinumer of processage80• Number of orlandog message80• Number of orlandog per scage8• Number of orlandog per	WinCC Basic (TIA Portal)	No
• WinCC Professional (TIA Portal)         Yes; from V11           Languages         32           • Number of online/runtime languages         32           • Number of online/runtime languages         32           • Languages per project         32           • Tuectionality under WinCC (TIA Portal)         Ves           • Lubraries         Yes           • Applications/options         Yes           • Web browser         Yes           • Pooket Word         Yes           • SIMATIC WinCC Sm@ntServer         Yes           • SIMATIC WinCC Audit         Yes           • Inne-contoled         Yes           • Inne-contoled         Yes           • task-controled         Yes           • Number of alarm classes         32           • Bitt messages         Yes           • Number of alarm classes         Yes           • Number of alarm classes         Yes           • Number of classe spitem         Yes           • Number of classe spitem         Yes           • System messages HMI         Yes <td>WinCC Comfort (TIA Portal)</td> <td>Yes; from V11</td>	WinCC Comfort (TIA Portal)	Yes; from V11
Languages            • Number of online/runtime languages             • Languages             • Languages project             • Applicationality under WinCG (TIA Portal)             Lbbraries             • Web browser             • Web browser             • Pocket Word             • Pocket Excel             • Poket Excel             • Poble Viewer             • SIMATIC WinCC Audit             ves             SIMATIC WinCC Audit             ves             SiMATIC WinCC Audit             ves             SiMatic Wince of alam classes             silm e-controlled             ves             Number of alam classes             - Number of alam classes </td <td>WinCC Advanced (TIA Portal)</td> <td>Yes; from V11</td>	WinCC Advanced (TIA Portal)	Yes; from V11
Online languages       32         Project languages per project       32         Functionality under WinCC (TIA Portal)       32         Libraries       Yes         Applications/options       Yes         • Web browser       Yes         • Pocket Word       Yes         • Pocket Excel       Yes         • Pocket Excel       Yes         • Polo Viewer       Yes         • SIMATIC WinCC Audit       Yes         • Iume-controlled       Yes         • Number of Ialam classes       32         • Bit messages       Yes         • Number of alam classes       32         • Number of alam classes       Yes         • Number of alam number procedure       Yes         • System messages HMI       Yes         • System messag	WinCC Professional (TIA Portal)	Yes; from V11
Online languages       32         Project languages per project       32         Functionality under WinCC (TIA Portal)       32         Libraries       Yes         Applications/options       Yes         • Web browser       Yes         • Pocket Word       Yes         • Pocket Excel       Yes         • Pocket Excel       Yes         • Polo Viewer       Yes         • SIMATIC WinCC Audit       Yes         • Iume-controlled       Yes         • Number of Ialam classes       32         • Bit messages       Yes         • Number of alam classes       32         • Number of alam classes       Yes         • Number of alam number procedure       Yes         • System messages HMI       Yes         • System messag	Languages	
• Number of online/runtime languages32Project languages per project32• Languages per project32• Languages per project32• LubrariesYes• Applications/options-• Web browserYes• Pocket ExcelYes• Pocket ExcelYes• Media PlayerYes• SIMATIC WinCC Sm@rtServerYes• SIMATIC WinCC Sm@rtServerYes• SiMATIC WinCC SungerServerYes• SiMATIC WinCC SungerServerYes• Number of Visual Basic ScriptsYes• Number of Islam classes32• SiMATIC WinCC SungerServerYes• Number of Islam classes32• SiMATIC WinCC SungerServerYes• Number of Islam classes32• SiMATIC WinCC SungerServerYes• Number of Islam classes32• SimmerYes• Number of Islam classes32• Sitter merscagesYes• Number of Islam classes32• System messages HMIYes• Number of analog messagesYes• Number of Characters per message8• Number of Characters per message8 <tr< td=""><td>Online languages</td><td></td></tr<>	Online languages	
Project languages         32           Functionality under WinCC (TIA Portal)         52           Libraries         Yes           Applications/options         Yes           • Web browser         Yes           • Pocket Word         Yes           • Pocket Excel         Yes           • Pocket Excel         Yes           • Pocket Excel         Yes           • Media Player         Yes           • SIMATIC WinCC Sm@rtServer         Yes           • SIMATIC WinCC Candit         Yes           Number of Visual Basic Scripts         Yes           Task planner         -           • time-controlled         Yes           • task-controlled         Yes           • task-controlled         Yes           • Number of alam classes         32           • Bit messages         Yes           • Number of bit messages         4000           • Analog messages         Yes           • Number of analog messages         Yes           • System newsages HMI         Yes           • System roverdure         Yes           • System of characters per message         80           • Number of process values per message         80		32
Languages per project32Functionality under VinCC (TI A Portal)LibrariesYesApplications/optionsYes• Web browserYes• Pocket WordYes• Pocket WordYes• Pocket ExcelYes• POF ViewerYes• SIMATIC WinCC Sm@rtServerYes• SIMATIC WinCC AuditYes• SIMATIC WinCC AuditYes• Task plannerYes• time-controlledYes• Number of Visual Basic ScriptsYes• Number of alarn classes32• Number of alarn classesS2• Number of alarn classesYes• Number of alarn classesYes• Number of alarn classesS2• Number of analog messagesYes• Number of analog messagesYes• System messages HMIYes• System messages HMIYes• System messages HMIYes• Number of classes per message80• System exert, more (SIMATIC S7, SINUMERIK, SiNOTION,)Yes• Number of process values per message80• Nu	· ·	
Functionality under WinCC (TIA Portal)         Yes           Apprications/options         Yes           Apprications/options         Yes           • Web browser         Yes           • Pocket Word         Yes           • Pocket Excel         Yes           • DDF Viewer         Yes           • Media Player         Yes           • SIMATIC WinCC Sm@rtServer         Yes           • SIMATIC WinCC Audit         Yes           Number of Visual Basic Scripts         Yes           Task planner         Yes           • time-controlled         Yes           • time-controlled         Yes           Mumber of alam classes         32           • Bit messages         Yes           • Number of analog messages         Yes           • Number of bit messages         Yes           • Number of analog messages         Yes           • Number of on procedure         Yes           • System messages HMI         Yes           • System event, more (SIMATIC S7, SINUMERIK, SIMOTION,)         Yes           • Number of characters per message         80           • Number of characters per message         80           • Number of characters per message         80		32
Libraries     Yes       Applications/options     Yes          • Pockett Word       Yes          • Pockett Excel       Yes          • DF Viewer       Yes          • DEF Viewer       Yes          • Media Player       Yes          • SIMATIC WinCC Sm@ptServer       Yes           siMATIC WinCC Audit       Yes          Number of Visual Basic Scripts       Yes          Task planner       Yes           time-controlled       Yes           task-controlled       Yes           task-controlled       Yes             Yes		
Applications/options       Yes         • 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       Yes         • time-controlled       Yes         • timescontrolled       Yes         • timesages system       32         • Bumber of bit messages       Yes         • Number of chalog messages       Yes         • System messages HMI       Yes         • System event, more (SIMATIC S7, SINUMERIK, SIMOTICN)       Yes         • Number of characters per message       80         • Number of process values per message       8         • Acknowledgment groups       Yes         • Message indicator       Yes         • Number of recipes       300		Yes
•Web browserYes•Pocket WordYes•Pocket ExcelYes•Pocket ExcelYes•Media PlayerYes•SIMATIC WinCC Sm@rtServerYes•SIMATIC WinCC AuditYes•Number of Visual Basic ScriptsYesTask plannerYes•SimacontrolledYes•sk-controlledYes•stak-controlledYes•stak-controlledYes•Number of alarn classes32•Number of alarn classesYes•Number of analog messagesYes•Number of claracters per messageNes•Number of characters per message80•Number of characters per message80•Number of process values per message80•Number of process values per messageYes•Number of process values per message80•Number of process values per messageYes•Number of process values per message80•Number of process values per messageYes•Number of process values per message80•Number of process values per messageYes•Number of process values per message90•Number of process values per message81•Number of process values per message90•Number of process valu		
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• SIMATIC WinCC AuditYesNumber of Visual Basic ScriptsYesTask plannerYes• time-controlledYes• task-controlledYesMessage system32• Number of alam classes32• Number of bit messagesYes• Number of bit messagesYes• Number of bit messagesYes• Number of alang messagesYes• Number of analog messagesYes• Number of analog messagesYes• System messages HMIYes• System messages HMIYes• System of characters per message80• Number of horcess values per message8• Acknowledgment groupsYes• Message indicatorYes• Message indicatorYes• Number of process values per message8• Number of recipes300	<ul><li>Pocket Word</li><li>Pocket Excel</li><li>PDF Viewer</li></ul>	Yes Yes
Number of Visual Basic Scripts       Yes         Task planner	<ul> <li>Pocket Word</li> <li>Pocket Excel</li> <li>PDF Viewer</li> <li>Media Player</li> </ul>	Yes Yes Yes
Task planner       Yes         • time-controlled       Yes         • task-controlled       Yes         Message system       32         • Number of alarm classes       32         • Bit messages       Yes         - Number of bit messages       4 000         • Analog messages       Yes         - Number of analog messages       Yes         - Number of analog messages       200         • S7 alarm number procedure       Yes         • System event, more (SIMATIC S7, SINUMERIK, SIMOTION,)       Yes         • Number of characters per message       80         • Number of process values per message       8         • Acknowledgment groups       Yes         • Message indicator       Yes         • Message indicator       Yes         • Mumber of recipes       300	<ul> <li>Pocket Word</li> <li>Pocket Excel</li> <li>PDF Viewer</li> <li>Media Player</li> <li>SIMATIC WinCC Sm@rtServer</li> </ul>	Yes Yes Yes Yes
• time-controlledYes• task-controlledYes• Message system32• Number of alarn classes32• Bit messagesYes- Number of bit messages4000• Analog messagesYes- Number of analog messages200• Number of analog messages200• System number procedureYes• System nessages HMIYes• System event, more (SIMATIC S7, SINUMERIK, SIMOTION,)Yes• Number of characters per message80• Number of process values per message8• Acknowledgment groupsYes• Message indicatorYes• Mumber of proceptYes• Mumber of procept300	<ul> <li>Pocket Word</li> <li>Pocket Excel</li> <li>PDF Viewer</li> <li>Media Player</li> <li>SIMATIC WinCC Sm@rtServer</li> <li>SIMATIC WinCC Audit</li> </ul>	Yes Yes Yes Yes Yes
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Message system         • Number of alarm classes       32         • Bit messages       Yes         - Number of bit messages       4 000         • Analog messages       Yes         - Number of analog messages       200         • S7 alarm number procedure       Yes         • System messages HMI       Yes         • System messages HMI       Yes         • System vevent, more (SIMATIC S7, SINUMERIK, SIMOTION,)       Yes         • Number of characters per message       80         • Number of process values per message       8         • Acknowledgment groups       Yes         • Message indicator       Yes         Recipe management       Yes         • Number of recipes       300	Pocket Word     Pocket Excel     PDF Viewer     Media Player     SIMATIC WinCC Sm@rtServer     SIMATIC WinCC Audit Number of Visual Basic Scripts Task planner	Yes Yes Yes Yes Yes Yes
Number of alarm classes32Bit messagesYes- Number of bit messages4 000• Analog messagesYes- Number of analog messages200• S7 alarm number procedureYes• System messages HMIYes• System nore (SIMATIC S7, SINUMERIK, SIMOTION,)Yes• Number of characters per message80• Number of process values per message8• Acknowledgment groupsYes• Message indicatorYes• Number of recipes300	Pocket Word     Pocket Excel     PDF Viewer     Media Player     SIMATIC WinCC Sm@rtServer     SIMATIC WinCC Audit Number of Visual Basic Scripts Task planner     time-controlled	Yes Yes Yes Yes Yes Yes
+ Bit messagesYes- Number of bit messages4 000- Analog messagesYes- Number of analog messages200- Number of analog messagesYes- S7 alarm number procedureYes- System messages HMIYes- System event, more (SIMATIC S7, SINUMERIK, SIMOTION,)Yes- Number of characters per message80- Number of characters per message80- Acknowledgment groupsYes- Acknowledgment groupsYes- Message indicatorYes- Number of recipes300	<ul> <li>Pocket Word</li> <li>Pocket Excel</li> <li>PDF Viewer</li> <li>Media Player</li> <li>SIMATIC WinCC Sm@rtServer</li> <li>SIMATIC WinCC Audit</li> </ul> Number of Visual Basic Scripts Task planner <ul> <li>time-controlled</li> <li>task-controlled</li> </ul>	Yes Yes Yes Yes Yes Yes
- Number of bit messages4 000- Number of bit messagesYes- Number of analog messages200- S7 alarn number procedureYes- System messages HMIYes- System event, more (SIMATIC S7, SINUMERIK, SIMOTION,)Yes- Number of characters per message80- Number of process values per message80- Acknowledgment groupsYes- Message indicatorYes- Reciper managementYes- Number of recipes300	<ul> <li>Pocket Word</li> <li>Pocket Excel</li> <li>PDF Viewer</li> <li>Media Player</li> <li>SIMATIC WinCC Sm@rtServer</li> <li>SIMATIC WinCC Audit</li> </ul> Number of Visual Basic Scripts Task planner <ul> <li>time-controlled</li> <li>task-controlled</li> </ul> Message system	Yes Yes Yes Yes Yes Yes Yes
• Analog messagesYes- Number of analog messages200• S7 alarn number procedureYes• System messages HMIYes• System event, more (SIMATIC S7, SINUMERIK, SIMOTION,)Yes• Number of characters per message80• Number of process values per message8• Acknowledgment groupsYes• Message indicatorYes• Mumber of recipes300	<ul> <li>Pocket Word</li> <li>Pocket Excel</li> <li>PDF Viewer</li> <li>Media Player</li> <li>SIMATIC WinCC Sm@rtServer</li> <li>SIMATIC WinCC Audit</li> </ul> Number of Visual Basic Scripts Task planner <ul> <li>time-controlled</li> <li>task-controlled</li> <li>task-controlled</li> <li>Message system</li> <li>Number of alarm classes</li> </ul>	Yes Yes Yes Yes Yes Yes Yes 32
- Number of analog messages200- Number of analog messagesYes- S7 alarm number procedureYes- System messages HMIYes- System event, more (SIMATIC S7, SINUMERIK, SIMOTION,)Yes- Number of characters per message80- Number of process values per message8- Acknowledgment groupsYes- Message indicatorYes- Recipe managementYes- Number of recipes300	<ul> <li>Pocket Word</li> <li>Pocket Excel</li> <li>PDF Viewer</li> <li>Media Player</li> <li>SIMATIC WinCC Sm@rtServer</li> <li>SIMATIC WinCC Audit</li> </ul> Number of Visual Basic Scripts Task planner <ul> <li>time-controlled</li> <li>task-controlled</li> <li>task-controlled</li> <li>Message system</li> <li>Number of alarm classes</li> <li>Bit messages</li> </ul>	Yes Yes Yes Yes Yes Yes Yes Yes Yes
• S7 alarm number procedureYes• System messages HMIYes• System event, more (SIMATIC S7, SINUMERIK, SIMOTION,)Yes• Number of characters per message80• Number of process values per message8• Acknowledgment groupsYes• Message indicatorYesRecipe managementYes• Number of recipes300	<ul> <li>Pocket Word</li> <li>Pocket Excel</li> <li>PDF Viewer</li> <li>Media Player</li> <li>SIMATIC WinCC Sm@rtServer</li> <li>SIMATIC WinCC Audit</li> </ul> Number of Visual Basic Scripts Task planner <ul> <li>time-controlled</li> <li>task-controlled</li> </ul> Message system <ul> <li>Number of alarm classes</li> <li>Bit messages</li> <li>— Number of bit messages</li> </ul>	Yes Yes Yes Yes Yes Yes Yes 32 Yes 4 000
• System messages HMIYes• System event, more (SIMATIC S7, SINUMERIK, SIMOTION,)Yes• Number of characters per message80• Number of process values per message8• Acknowledgment groupsYes• Message indicatorYes• Message indicatorYes• Number of recipes300	<ul> <li>Pocket Word</li> <li>Pocket Excel</li> <li>PDF Viewer</li> <li>Media Player</li> <li>SIMATIC WinCC Sm@rtServer</li> <li>SIMATIC WinCC Audit</li> </ul> Number of Visual Basic Scripts Task planner <ul> <li>time-controlled</li> <li>task-controlled</li> <li>task-controlled</li> </ul> Message system <ul> <li>Number of alarm classes</li> <li>Bit messages</li> <li>— Number of bit messages</li> <li>Analog messages</li> </ul>	Yes Yes Yes Yes Yes Yes Yes Yes 32 Yes 4 000 Yes
• System event, more (SIMATIC S7, SINUMERIK, SIMOTION,)       Yes         • Number of characters per message       80         • Number of process values per message       8         • Acknowledgment groups       Yes         • Message indicator       Yes         Recipe management       Yes         • Number of recipes       300	<ul> <li>Pocket Word</li> <li>Pocket Excel</li> <li>PDF Viewer</li> <li>Media Player</li> <li>SIMATIC WinCC Sm@rtServer</li> <li>SIMATIC WinCC Audit</li> </ul> Number of Visual Basic Scripts Task planner <ul> <li>time-controlled</li> <li>task-controlled</li> <li>task-controlled</li> </ul> Message system <ul> <li>Number of alarm classes</li> <li>Bit messages</li> <li>Number of bit messages</li> <li>Analog messages</li> <li>Number of analog messages</li> </ul>	Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes
SIMOTION,)     80       • Number of characters per message     80       • Number of process values per message     8       • Acknowledgment groups     Yes       • Message indicator     Yes       Recipe management     300	<ul> <li>Pocket Word</li> <li>Pocket Excel</li> <li>PDF Viewer</li> <li>Media Player</li> <li>SIMATIC WinCC Sm@rtServer</li> <li>SIMATIC WinCC Audit</li> <li>Number of Visual Basic Scripts</li> <li>Task planner</li> <li>time-controlled</li> <li>task-controlled</li> <li>task-controlled</li> <li>Bit messages</li> <li>Number of alarm classes</li> <li>Bit messages</li> <li>Analog messages</li> <li>Number of analog messages</li> <li>S7 alarm number procedure</li> </ul>	Yes Yes Yes Yes Yes Yes Yes Yes 32 Yes 4 000 Yes 200 Yes
• Number of process values per message       8         • Acknowledgment groups       Yes         • Message indicator       Yes         Recipe management       300	<ul> <li>Pocket Word</li> <li>Pocket Excel</li> <li>PDF Viewer</li> <li>Media Player</li> <li>SIMATIC WinCC Sm@rtServer</li> <li>SIMATIC WinCC Audit</li> <li>Number of Visual Basic Scripts</li> <li>Task planner</li> <li>time-controlled</li> <li>task-controlled</li> <li>Message system</li> <li>Number of alarm classes</li> <li>Bit messages <ul> <li>Number of bit messages</li> <li>Analog messages</li> <li>Number of analog messages</li> <li>S7 alarm number procedure</li> <li>System messages HMI</li> </ul> </li> </ul>	Yes Yes Yes Yes Yes Yes Yes Yes 32 Yes 4 000 Yes 200 Yes
• Acknowledgment groups     Yes       • Message indicator     Yes       Recipe management     300	<ul> <li>Pocket Word</li> <li>Pocket Excel</li> <li>PDF Viewer</li> <li>Media Player</li> <li>SIMATIC WinCC Sm@rtServer</li> <li>SIMATIC WinCC Audit</li> <li>Number of Visual Basic Scripts</li> <li>Task planner</li> <li>time-controlled</li> <li>task-controlled</li> <li>task-controlled</li> <li>Number of alarm classes</li> <li>Bit messages <ul> <li>Number of bit messages</li> <li>Analog messages</li> <li>System number procedure</li> <li>System event, more (SIMATIC S7, SINUMERIK, SIMOTION, )</li> </ul> </li> </ul>	Yes Yes Yes Yes Yes Yes Yes Yes 32 Yes 4 000 Yes 200 Yes
Message indicator     Yes  Recipe management      Number of recipes     300	<ul> <li>Pocket Word</li> <li>Pocket Excel</li> <li>PDF Viewer</li> <li>Media Player</li> <li>SIMATIC WinCC Sm@rtServer</li> <li>SIMATIC WinCC Audit</li> <li>Number of Visual Basic Scripts</li> <li>Task planner</li> <li>time-controlled</li> <li>task-controlled</li> <li>task-controlled</li> <li>Number of alarm classes</li> <li>Bit messages <ul> <li>Number of bit messages</li> <li>Analog messages</li> <li>System number procedure</li> <li>System event, more (SIMATIC S7, SINUMERIK, SIMOTION, )</li> </ul> </li> </ul>	Yes Yes Yes Yes Yes Yes Yes Yes Yes 32 Yes 4 000 Yes 200 Yes Yes Yes
Recipe management       • Number of recipes       300	<ul> <li>Pocket Word</li> <li>Pocket Excel</li> <li>PDF Viewer</li> <li>Media Player</li> <li>SIMATIC WinCC Sm@rtServer</li> <li>SIMATIC WinCC Audit</li> </ul> Number of Visual Basic Scripts Task planner <ul> <li>time-controlled</li> <li>task-controlled</li> </ul> Message system <ul> <li>Number of alarm classes</li> <li>Bit messages</li> <li>Number of bit messages</li> <li>Analog messages</li> <li>Number of analog messages</li> <li>System messages HMI</li> <li>System event, more (SIMATIC S7, SINUMERIK, SIMOTION,)</li> <li>Number of characters per message</li> </ul>	Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes
Number of recipes 300	<ul> <li>Pocket Word</li> <li>Pocket Excel</li> <li>PDF Viewer</li> <li>Media Player</li> <li>SIMATIC WinCC Sm@rtServer</li> <li>SIMATIC WinCC Audit</li> </ul> Number of Visual Basic Scripts Task planner <ul> <li>time-controlled</li> <li>task-controlled</li> </ul> Message system <ul> <li>Number of alarm classes</li> <li>Bit messages</li> <li>Number of bit messages</li> <li>Analog messages</li> <li>ST alarm number procedure</li> <li>System messages HMI</li> <li>System event, more (SIMATIC S7, SINUMERIK, SIMOTION,)</li> <li>Number of characters per message</li> <li>Number of process values per message</li> </ul>	Yes Yes Yes Yes Yes Yes Yes Yes Yes 32 Yes 4 000 Yes 200 Yes 200 Yes Yes 80 8
	<ul> <li>Pocket Word</li> <li>Pocket Excel</li> <li>PDF Viewer</li> <li>Media Player</li> <li>SIMATIC WinCC Sm@rtServer</li> <li>SIMATIC WinCC Audit</li> <li>Number of Visual Basic Scripts</li> <li>Task planner</li> <li>time-controlled</li> <li>task-controlled</li> <li>task-controlled</li> <li>Number of alarm classes</li> <li>Bit messages <ul> <li>Number of bit messages</li> <li>Number of analog messages</li> <li>S7 alarm number procedure</li> <li>System event, more (SIMATIC S7, SINUMERIK, SIMOTION,)</li> <li>Number of process values per message</li> <li>Aumber of process values per message</li> <li>Acknowledgment groups</li> </ul> </li> </ul>	Yes Yes Yes Yes Yes Yes Yes Yes 32 Yes 4 000 Yes 200 Yes 200 Yes 80 80 8
Data records per recipe     500	<ul> <li>Pocket Word</li> <li>Pocket Excel</li> <li>PDF Viewer</li> <li>Media Player</li> <li>SIMATIC WinCC Sm@rtServer</li> <li>SIMATIC WinCC Audit</li> <li>Number of Visual Basic Scripts</li> <li>Task planner</li> <li>time-controlled</li> <li>task-controlled</li> <li>task-controlled</li> <li>Number of alarm classes</li> <li>Bit messages <ul> <li>Number of bit messages</li> <li>Analog messages</li> <li>System messages HMI</li> <li>System event, more (SIMATIC S7, SINUMERIK, SIMOTION,)</li> <li>Number of process values per message</li> <li>Acknowledgment groups</li> <li>Message indicator</li> </ul> </li> </ul>	Yes Yes Yes Yes Yes Yes Yes Yes 32 Yes 4 000 Yes 200 Yes 200 Yes 80 80 8
	<ul> <li>Pocket Word</li> <li>Pocket Excel</li> <li>PDF Viewer</li> <li>Media Player</li> <li>SIMATIC WinCC Sm@rtServer</li> <li>SIMATIC WinCC Audit</li> <li>Number of Visual Basic Scripts</li> <li>Task planner</li> <li>time-controlled</li> <li>task-controlled</li> <li>Message system</li> <li>Number of alarm classes</li> <li>Bit messages</li> <li>Number of bit messages</li> <li>Analog messages</li> <li>System number procedure</li> <li>System event, more (SIMATIC S7, SINUMERIK, SIMOTION,)</li> <li>Number of process values per message</li> <li>Acknowledgment groups</li> <li>Acknowledgment groups</li> <li>Message indicator</li> </ul>	Yes Yes Yes Yes Yes Yes Yes Yes 32 Yes 4 000 Yes 200 Yes 200 Yes 80 80 8 8 Yes

- Entrino por data record	1 000
Entries per data record     Size of internal recipe memory	1 000 2 Mbyte
Size of internal recipe memory     Becipe memory expandable	2 Mbyte Yes
Recipe memory expandable Variables	100
Number of variables per device	2 048
Number of variables per device     Number of variables per screen	400
Limit values	Yes
Multiplexing	Yes
Structures	Yes
• Arrays	Yes
Images	
Number of configurable images	500
Permanent window/default	Yes
Global image	Yes
Pop-up images	Yes
Slide-in images	Yes
Image selection by PLC	Yes
Image number in the PLC	Yes
Image objects	
Number of objects per image	400
Text fields	Yes
• I/O fields	Yes
<ul> <li>Graphic I/O fields (graphics list)</li> </ul>	Yes
<ul> <li>Symbolic I/O fields (text list)</li> </ul>	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	20
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     Sliders	Yes
Sliders     Pointer instrumente	Yes
Pointer instruments     Analog/digital clock	Yes
Analog/digital clock Lists	
Number of text lists per project	500
Number of next lists per project     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	20 000
Message archive	Yes
Process value archive	Yes
<ul><li>Process value archive</li><li>Archiving methods</li></ul>	Yes
Process value archive	

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

Mechanics/material	
Enclosure material (front)	
Plastic	No
Aluminum	Yes
<ul> <li>Stainless steel</li> </ul>	No
Dimensions	
Width of the housing front	274 mm
Height of housing front	190 mm
Mounting cutout, width	251 mm
Mounting cutout, height	166 mm
Overall depth	62.7 mm
Weights	
Weight (without packaging)	1.9 kg
Weight (with packaging)	2.6 kg

last modified:

11/22/2023 🖸