SIEMENS

Data sheet

6AV6645-0GB01-0AX1



**** Spare part *** Does not correspond to the current version of the standard. SIMATIC Mobile Panel 277F IWLAN V2 (USA), with integrated acknowledgment button and emergency stop button, supports IPCF rapid roaming configurable with WinCC flexible Standard Version 2008 or higher or TIA Portal V11 SP2 or higher incl. 1 main battery Power supply to be ordered separately: 6AV6671-5CE00-0AX1 charging station 6AV6671-5CN00-0AX2 tabletop power supply unit (EU/US/UK/JP)

Figure similar

General information	
Product type designation	Mobile Panel 277F IWLAN V2
Customer-specific configuration	Yes
Display	
Design of display	TFT
Screen diagonal	7.5 in
Color display	Yes
Number of colors	65 536
Resolution (pixels)	
 Horizontal image resolution 	640 pixel
 Vertical image resolution 	480 pixel
Backlighting	
 MTBF backlighting (at 25 °C) 	50 000 h
Control elements	
Control elements	Keys and touch
Keyboard fonts	
 Membrane keyboard 	
 — user-definable label membrane keys 	Yes
 Function keys 	
 — Number of function keys 	18
 — Number of function keys with LEDs 	18
 Keys with LED 	Yes
 Numeric keyboard 	Yes
 alphanumeric keyboard 	Yes
 Multi-key operation 	Yes
 — Number of multi-key operations 	2
Touch operation	
Design as touch screen	Yes; analog, resistive
Connection type	
 Type of connection for mouse/keyboard/barcode reader 	USB / USB / USB
Special operator controls	
 Emergency stop button (forced blocking) 	Yes
 Acknowledgement button 	Yes
 Key-operated switch 	No
 Illuminated pushbutton 	No
Handwheel	No

Design of the power supply Via charging station of table power supply Type of supply voltage DC Processor type ARM, 520 MHz Memory Flash / RAM Memory available for user data 0 Mkyle Capacity of main memory, max. 128 Mkyle Capacity of main memory, max. 128 Mkyle Capacity of main memory, max. 128 Mkyle Capacity of the power supply Yes - Radid voltage 7 L V - Capacity for the power supply Yes - Capacity for the power supply Yes - Capacity for the power supply Yes - Early - saving mode Yes	Supply voltage	
Type of supply voltage DC Processor ARM. 520 MHz Memory Flash / RAM Memory available for user data 6 Mbyte Capacity of mannemory, max. 128 Mbyte Accumulation 6 Mbyte Capacity of mannemory, max. 128 Mbyte Accumulation 72 V Ratid voltage 72 V • Ratid voltage 72 V • Capacity 5100 mA h • Number of loading cycles, min 500 • Charging time, typ. 4 h • Operating time, typ. 4 h • Display for battery capacity Yes • Early replacement during operation Yes • Dattery Yes LED for sommunication Yes LED for sommunication Yes • Trake of day Cfeak • Interfaces bis instraces 1 • Interfaces bis instraces 1 • Number of NS 485 instr		Via charging station or table power supply
Processor Processor type ARM, 520 MHz Processor type ARM, 520 MHz Memory Flash / RAM Wernoy variable for user data 6 Moyle Capacity of main memory, max. 128 Moyle Accumulator 9 Man restratigeable ballety 7.2 V • Rated voltage 7.2 V • Capacity (m. typ.) 4 h • Operating time, typ. 4 h • Delogity for tallery capacity Yes • Batter yreplacement during operation Yes • Batter yreplacement during operation Yes • Drokel for tablery Yes • Drokel for tablery Yes • Droke for tablery Yes • Time of day Yes Clock Yes • Herdware clock (real-time) Yes • retentive Yes • retentive Yes • retentive Yes • Hordware clock (real-time) Yes • retentive Yes • retentive Yes • retentive <t< td=""><td></td><td></td></t<>		
Processor type ARM. 520 MHz Memory Flash / RAM Memory available for user data 6 Mbyle Capacity of memory, max. 128 Mbyle Accuration memory, max. 120 Mbyle Accuration memory, max. 120 Mbyle - Operating time, typ. 4 h - Detating time, typ. 4 h - Detating time, typ. 4 h - EDD for safe Yes - EDD for safe Yes - EDD for safe <td< td=""><td></td><td></td></td<>		
Memory Fish / RAM Type of memory Fish / RAM Memory available for user data 6 Mbyle Capabile balany 128 Mbyle Accumulator - Main rechargeable balany 7 2 V • Rated voltage 7 2 V • Capabile balany 5 100 mA h • Number of loading cycles, min 500 • Charging lime, typ. 4 h • Operating lime, typ. 4 h • Display for balany capabily Yes • Eatray replacement during operation Yes • Battery replacement during operation Yes • ED for safe Yes • ED for safe Yes • Ibit for communication Yes • Ibit for communication Yes • Ibit for communication Yes • Viorations Yes • Interfaces Yes • Interfaces Yes • Interfaces 1 Interfaces 1 Interfaces 1 Interfaces 1 Numb		ARM 520 MHz
Type of memory Flash / RAM Memory available for user data 6 Mbyte Capacity of main memory, max. 128 Mbyte Accumulator 7.2 V Rated voltage 7.2 V • Capacity 5100 mAth • Operating time, typ. 4 h • Departing time, typ. 4 h • EDD for communication Yes • EDD for communication Yes • Interfaces		
Memory available for user data 6 Mayle Capacity of main memory, max. 128 Mbyte Accumulator 128 Mbyte Accumulator 128 Mbyte Accumulator 5100 mA/h • Namber of loading cycles, min 500 • Depsity for battery capacity Yes • Depsity for battery capacity Yes • Battery replacement during operation Yes • Battery replacement during operation Yes • Eborgry-saving mode Yes • Imo of day Clock • Inter daces 1 • Inter daces 1 <t< td=""><td></td><td>Elech / DAM</td></t<>		Elech / DAM
Capably of main memory, max. 128 Mbyte Accumulator Interfaces Nain rechargeable battery 7.2 V • Rated voltage 7.2 V • Capacity 5100 mA·h • Number of loading cycles, min 500 • Operating time, typ. 4 h • Display for battery capacity Yes • Energy-awing mode Yes • Battery replacement during operation Yes • Doer stife Yes • EDD for safe Yes • Ubrations Yes • Ubrations Yes • Time of day Yes • Clock • Hardware dock (real-line) • Hardware dock (real-line) Yes • releative Yes • Interfaces 1 • Interfaces 1 Number of Indistrial Ethernet Interfaces 0 Number of RS 425 Interfaces 0 Number of Visits IEthernet Interfaces 1 Number of Indiatrial Ethernet Interfaces 1 Number of Visits IEthernet Interfaces 1 Number of Visits IEthernet Interfaces 1 Number of Instaffacts 1 <		
Accumulator Main rechargeable battery • Rated voltage 7.2 V • Capacity 5100 mA h • Number of loading cycles, min 500 • Operating time, typ. 4 h • Display for battery capacity Yes • Battery replacement during operation Yes Power LED Yes • LED for communication Yes • Iter of adapt Yes • Iter of adapt Yes • Iter of aday Yes • Clock Yes • Iter of aday Yes • Inter of aday Yes • Interfaces 1 Interfaces 1 Interfaces 1 Number of Nashal Ethernet interfaces		
Main rechargeable battery 7.2 V Capacity 5100 mA h 500 Charging time, typ, 4 h Operating time, typ, 4 h 0elays and the time of load interfaces 4 h 0elays and the time of load interfaces 4 h 0elays 4 h 0elays and the time of load interfaces 4 h 0elays 4 h 4 h 0elays 4 h		
• Rated voltage 7.2 V • Capacity 5 100 mA·h • Number of loading cycles, min 500 • Charging time, typ. 4 h • Display for battery capacity Yes • Energy-saving mode Yes • Battery replacement during operation Yes Power LED Yes IED for safe Yes LED for safe Yes Clock Yes Vitrations Yes Time of day Yes Clock Yes IIm of day Yes Clock Yes Interfaces 1 Interfaces 1 Interfaces 1 Interfaces 1 Number of industrial Ethernet interfaces 1 Number of RS 422 interfaces 0 Number of RS 422 interfaces 0 Number of RS 422 interfaces 1 Multimedia card/SD card slot 1 MMC/SD card slot Witnees IAN Yes Supports rapid raming Yes Protocols Yes Protocols Yes Protocols Yes Protocols Yes Protocols Yes Protocols Yes		
• Capacity 5 100 mA h • Number of loading cycles, min 500 • Charging time, typ. 4 h • Operating time, typ. 4 h • Display for battery capacity Yes • Energy-saving mode Yes • Battery replacement during operation Yes Prover LED Yes LED for communication Yes LED for communication Yes Ubrations Yes Time of day Yes Clock Yes • Hardware clock (real-time) Yes • retertive Yes • retertive Yes • retertive Yes • Interfaces/bus type 1x Ethernet interfaces Interfaces/bus type 1x Ethernet (RJ45) Number of RS 445 interfaces 0 Number of RS 445 interfaces 1 Number of RS 445 interfaces 1 Number of RS 445 interfaces 1 Number of RS 422 interfaces 1 Number of RS 422 interfaces 1 Number of RS 425 interfaces 1 Number of RS 425 interfaces 1 Number of RS 422 interfaces 1 Number of RS 422 interfaces 1 Number of RS 422 interfaces 1 <td></td> <td>7.01/</td>		7.01/
• Number of loading cycles, min500• Charging time, typ.4 h• Operating time, typ.4 h• Display for battery capacityYes• Energy-awing modeYes• Battery replacement during operationYes• Dever LEDYesLED for safeYesLED for safeYesLED for safeYesLED for batteryYesVibrationsYesVibrationsYesInne of dayClockClockYes• Hardware clock (real-time)Yes• retentiveYes• retentiveYes• retentiveYes• Interfaces1Interfaces0Number of RA 485 interfaces0Number of RA 485 interfaces1Number of RA 48	-	
• Charging time, typ. 4 h • Operating time, typ. 4 h • Display for battery capacity Yes • Energy-saving mode Yes • Battery replacement during operation Yes Power LED Yes LED for safe Yes LED for safe Yes LED for communication Yes LED for tattery Yes Ubtrations Yes Time of day Yes Clock + fairdware clock (real-lime) Yes • itardware clock (real-lime) Yes yes • operative Yes Number of Iduatifial Ethemet interfaces 1 Interfaces/bus type 1x Ethemet (RJ45) 1 Number of IRS 426 interfaces 0 1 Number of IRS 426 interfaces 1 1 Number of IRS 426 interfaces 1 1 <td></td> <td></td>		
 e lisplay for battery capacity Yes Entery-saving mode Yes Battery replacement during operation Yes Power LED LED for safe Yes LED for safe Yes LED for safe Yes LED for battery Yes Ves Ubrations Yes Time of day Clock Hardware clock (real-time) Yes Yes Yes Interfaces/bus type Interfaces/bus type Interfaces/bus type Interfaces/bus type Interfaces/bus type Interfaces 1 Number of Industrial Ethernet interfaces No Protocols No Protocols No Protocols No Proteocols No 		
• Energy-saving mode Yes • Battery replacement during operation Yes Prover LED Yes Power LED Yes LED for safe Yes LED for communication Yes LED for communication Yes Utrations Yes Time of day Clock • Elentive Yes Interfaces/bus type 1x Ethernet (RJ45) Interfaces/bus type 1x Ethernet (RJ45) Number of Industrial Ethernet Interfaces 0 Number of IS422 Interfaces 0 Number of IS422 Interfaces 1 Mutimedia card/SD card slot 1 MMC/SD card slot WLAN Yes • Supports protocol for PROFINET IO Yes PROFIBUS No Protocols (Ethernet) Yes • TCP/IP Yes PROFIBUS No Protocols (Ethernet) No • OtoPUS No • other bus systems No • other bus systems No • augorted standards - Ratio standards - Rato standard VLAN 802.11		
• Battery replacement during operation Yes Type of output Yes Power LED Yes LED for safe Yes LED for communication Yes LED for battery Yes Vibrations Yes Time of day Yes Clock * • latedware clock (real-time) Yes • standware clock (real-time) Yes • synchronizable Yes Interfaces/bus type 1x Ethernet (RJ45) Number of RS 425 interfaces 0 Number of RS 425 interfaces 1 Number of RS 425 interfaces 1 Number of S 425 interfaces 1 Number of Wireless Interfaces 1 Witimedia card/SD card slot 1 MMC/SD card slot Wultimedia card/SD card slot 1 MMC/SD card slot Wultimedia card/SD cof for PROFINET IO Yes <td></td> <td></td>		
Type of output Power LED Yes LED for safe Yes LED for safe Yes LED for battery Yes Vibrations Yes Time of day (Clock Clock Yes • Hardware dock (real-time) Yes • synchronizable Yes Interfaces/bus type 1x Ethernet (RJ45) Number of Industrial Ethernet interfaces 0 Number of RS 485 interfaces 0 Number of RS 485 interfaces 1 Number of RS 452 interfaces 1 Number of RS 452 interfaces 1 Multimedia card/SD card slot 1 MMC/SD card slot Wireless LAN Yes • Wireless LAN Yes PROFIBUS No • CORDUS No		
Power LED Yes LED for safe Yes LED for communication Yes LED for battery Yes Vibrations Yes Time of day Clock Cock • Hardware clock (real-time) • retentive Yes • synchronizable Yes Interfaces 1x Ethernet (RJ45) Number of Industrial Ethernet interfaces 1 Number of Industrial Ethernet interfaces 0 Number of RS 485 interfaces 0 Number of NS 422 interfaces 1 Number of Viseless interfaces 1 Number of Visel Interfaces 1 Multimedia card/SD card slot 1 MMC/SD card slot WLAN • • Vireless LAN Yes • Supports protocol for PROFINET IO Yes PROFIBUS No PROFIBUS No PROFIBUS No PROFIBUS No PROFIBUS No OBUS No • Other bus systems No		res
LED for safe Yes LED for communication Yes LED for battery Yes Vibrations Yes Time of day Yes Clock • Hardware clock (real-time) Yes • Hardware clock (real-time) Yes • Iteratores Yes Interfaces 1 Interfaces/bus type 1x Ethernet (RJ46) Number of RS 485 interfaces 0 Number of RS 422 interfaces 0 Number of RS 425 interfaces 1 Multimedia card/SD card slot 1 MMC/SD card slot WLAN Yes • Vireless LAN Yes • PROFIBUS No PROFIBUS No PROFIBUS No • ODBUS No • Other bus systems No • Other bus systems No • ODBUS No • Communication Yes • Moreless communication No • Communication Yes • Emacion of radio interference acc. to EN 55 011		
LED for communication Yes LED for battery Yes Vibrations Yes Time of day Clock • Hardware clock (real-time) Yes • interfaces Yes • interfaces/but type Yes Interfaces/but type 1x Ethernet (RJ45) Number of RS 455 interfaces 0 Number of RS 455 interfaces 0 Number of RS 455 interfaces 0 Number of RS 455 interfaces 1 Number of Wireless Interfaces 1 Number of USB interfaces 1 Mutlimedia card/SD card slot 1 MMC/SD card slot WLAN Yes PROFIBUS Yes PROFIBUS No PROFIBUS No PROFIBUS No PROFIBUS No • TCP/IP Yes Pruther protocols Image: Communication • NOBUS No • OBUS No • OBUS No • OBUS No <td></td> <td></td>		
LED for battery Yes Vibrations Yes Time of day Clock • Hardware clock (real-time) Yes • retentive Yes • retentive Yes • synchronizable Yes Interfaces/bus type 1x Ethernet (RJ45) Number of industrial Ethernet interfaces 1 Number of RS 455 interfaces 0 Number of RS 422 interfaces 0 Number of USB interfaces 1 Multimedia card/SD card slot 1 MMC/SD card slot WLAN Yes • Wireless LAN Yes • Wireless LAN Yes • Wireless LAN Yes • Wireless LAN Yes • Supports rapid roaming Yes PROFIBUS No PROFIBUS No PROFIBUS No Protocols No • ODBUS No • OMDBUS No • other bus systems No • other bus systems No • ODBUS No • other bus systems		
Vibrations Yes Time of day Clock Hardware clock (real-time) Yes retentive yes Interfaces Interfaces 1 Interfaces 0 Number of RS 455 interfaces 0 Number of USB interfaces 1 Number of USB interfaces 1 Number of USB interfaces 1 Multimedia card/SD card slot 1 MMC/SD card slot WLAN Wireless LAN Yes Supports protocol for PROFINET IO Yes PROFisafe Yes PROFisafe Yes PROFISafe Yes PROFisafe Yes PROFisafe Yes PROFisafe No other bus systems No other bus systems		
Time of day Clock Hardware clock (real-time) Yes retentive synchronizable Interfaces/ Interfaces/bus type 1x Ethernet (RJ45) Number of industrial Ethernet interfaces 1 Number of RS 485 interfaces 0 Number of RS 422 interfaces 0 Number of VISB interfaces 1 Number of VISB interfaces 1 Number of Wiseless Interfaces 1 Muthmedia card/SD card slot 1 MMC/SD card slot WLAN Yes Protocols Yes PROFIBUS No PROFIBUS No PROFIBUS No Protocols Yes PROFIBUS No Protocols Yes Protocols No • Other bus systems No • Omunuciation functio		
Clock Hardware clock (real-time) Yes • retentive Yes • synchronizable Yes Interfaces Interfaces Interfaces/bus type 1x Ethernet (RJ45) Number of RS 485 interfaces 0 Number of RS 422 interfaces 0 Number of RS 422 interfaces 0 Number of RS 422 interfaces 1 Mumber of RS 422 interfaces 1 Mutimedic card/SD card slot 1 MMC/SD card slot WLAN Ves • Supports protocol for PROFINET IO Yes PROFIsafe Yes PROFIsafe Yes PROFISafe Yes PROFISafe Yes Protocols No Other bus systems No Other bus systems No Outher of standards - - Radio standard WLAN 802.11 Yes Emc Emc Emission of radio interference acc. to EN 55 011		Yes
• Hardware clock (real-lime) Yes • retentive Yes • synchronizable Yes Interfaces/bus type 1x Ethernet (RJ45) Number of industrial Ethernet interfaces 1 Number of RS 428 interfaces 0 Number of RS 422 interfaces 0 Number of USB interfaces 1 Number of VIS 22 interfaces 1 Number of VISB interfaces 1 MUC/SD card slot VISC/SD card slot VISE VISE Yes PROFIBUS No PROFIBUS No • ODEN No		
• retentive Yes • synchronizable Yes Interfaces 1 Interfaces/bus type 1x Ethernet (RJ45) Number of industrial Ethernet interfaces 1 Number of RS 485 interfaces 0 Number of RS 422 interfaces 0 Number of SZ 22 interfaces 0 Number of Wireless interfaces 1 Number of Wireless interfaces 1 Mutimedia card/SD card slot 1 MMC/SD card slot WLAN Yes • Wireless LAN Yes • Supports rapid roaming Yes Protocols Yes Supports protocol for PROFINET IO Yes PROFIBUS No PROFIBUS No Protocols (Ethernet) Yes • TCP/IP Yes Further protocols No • other bus systems No • other bus systems No • communication - • supported standards - - Radio standard WLAN 802.11 Yes Emission of radio interference acc. to Eth 55 011		
e synchronizable Yes Interfaces/bus type 1x Ethernet (RJ45) Number of Industrial Ethernet interfaces 1 Number of RS 485 interfaces 0 Number of RS 482 interfaces 0 Number of Wizeless interfaces 1 Multimedia card/SD card slot 1 MMC/SD card slot VULAN V • Wizeless LAN Yes Protocols		
Interfaces Interfaces/bus type 1x Ethernet (RJ45) Number of industrial Ethernet interfaces 1 Number of RS 485 interfaces 0 Number of RS 422 interfaces 0 Number of RS 422 interfaces 0 Number of VSB interfaces 1 Number of Wireless interfaces 1 WLAN WLAN • Wireless LAN Yes • Supports rapid roaming Yes PROFISIS Yes PROFISIS No PROFISIS No • TCP/IP Yes Further protocols No • other bus systems No • exation functions Yes EMC Emission of radio interference acc. to		
Interfaces/bus type 1x Ethermet (RJ45) Number of industrial Ethernet interfaces 1 Number of RS 485 interfaces 0 Number of RS 422 interfaces 0 Number of Wireless interfaces 1 Number of vireless interfaces 1 Muttimedia card/SD card slot 1 MMC/SD card slot WLAN • • Wireless LAN Yes • Supports rapid roaming Yes Protocols		Yes
Number of industrial Ethernet interfaces 1 Number of RS 485 interfaces 0 Number of WSB interfaces 1 Number of USB interfaces 1 Number of wireless interfaces 1 Multimedia card/SD card slot 1 MMC/SD card slot WLAN Yes • Wireless LAN Yes • Supports protocol for PROFINET IO Yes PROFIBUS No PROFIBUS No Protocols No PROFIBUS No PROFIBUS No PROFUS Yes PROFUS Yes • TCP/IP Yes Further protocols No • MODBUS No • other bus systems No Communication functions No Wireless communication - supported standards - Radio standard WLAN 802.11 Yes Emission of radio interference acc. to EN 55 011		
Number of RS 485 interfaces 0 Number of RS 422 interfaces 0 Number of USB interfaces 1 Number of wireless interfaces 1 Multimedia card/SD card slot 1 MMC/SD card slot WLAN • • Wireless LAN Yes • Supports rapid roaming Yes Protocols • Supports protocol for PROFINET IO Yes PROFIBUS No Protocols (Ethernet) • • TCP/IP Yes Further protocols No Ommunication functions No Wireless communication • • supported standards - - Radio standard WLAN 802.11 Yes		1x Ethernet (RJ45)
Number of RS 422 interfaces 0 Number of USB interfaces 1 Number of wireless interfaces 1 Multimedia card/SD card slot 1 MMC/SD card slot WLAN 1 • Wireless LAN Yes • Supports protocol for PROFINET IO Yes PROFISafe Yes PROFIBUS No Protocols (Ethernet) Yes • TCP/IP Yes Further protocols No OBBUS No • other bus systems No Communication functions No Wireless communication Yes EMC Emission of radio interference acc. to EN 55 011		
Number of USB interfaces 1 Number of wireless interfaces 1 Multimedia card/SD card slot 1 MMC/SD card slot WLAN • • Wireless LAN Yes • Supports rapid roaming Yes Protocols - Supports protocol for PROFINET IO Yes PROFIBUS No Protocols (Ethernet) Yes • TCP/IP Yes Further protocols - Wireless communication No • other bus systems No Communication - - Radio standard WLAN 802.11 Yes EMC Emission of radio interference acc. to EN 55 011		
Number of wireless interfaces 1 Multimedia card/SD card slot 1 MMC/SD card slot WLAN • Wireless LAN Yes • Supports rapid roaming Yes Protocols • Supports protocol for PROFINET IO Yes PROFIBUS No Protocols (Ethernet) Yes • TCP/IP Yes Further protocols No • other bus systems No Vireless communication • • supported standards Yes — Radio standard WLAN 802.11 Yes		
Multimedia card/SD card slot 1 MMC/SD card slot WLAN Wireless LAN Supports rapid roaming Yes Protocols Supports protocol for PROFINET IO Yes PROFIBUS No Protocols (Ethernet) TCP/IP Yes Further protocols MODBUS other bus systems No Other bus systems No Communication functions Wireless communication supported standards — Radio standard WLAN 802.11 Yes EMC Emission of radio interference acc. to EN 55 011 Emission of radio interference acc. to EN 55 011 Model and account of the standards Model and account of the standards Model and account of the standards Model and account of the standard of the sta		
WLAN • Wireless LAN Yes • Supports rapid roaming Yes Protocols		
• Wireless LAN Yes • Supports rapid roaming Yes Protocols		1 MMC/SD card slot
• Supports rapid roamingYesProtocolsSupports protocol for PROFINET IOYesPROFIsafeYesPROFIBUSNoProtocols (Ethernet)Yes• TCP/IPYesFurther protocolsNo• MODBUSNo• other bus systemsNoCommunication functionsNoWireless communicationYes- Radio standard WLAN 802.11YesEMCEmission of radio interference acc. to EN 55 011		
Protocols Supports protocol for PROFINET IO Yes PROFIsafe Yes PROFIBUS No Protocols (Ethernet) Yes • TCP/IP Yes Further protocols No • MODBUS No • other bus systems No Communication functions No Wireless communication - Radio standards - Radio standard WLAN 802.11 Yes EMC Emission of radio interference acc. to EN 55 011		
Supports protocol for PROFINET IO Yes PROFIsafe Yes PROFIBUS No Protocols (Ethernet) Yes • TCP/IP Yes Further protocols No • MODBUS No • other bus systems No Communication functions No Wireless communication - Radio standard WLAN 802.11 Yes Emission of radio interference acc. to EN 55 011		Yes
PROFIsafe Yes PROFIBUS No Protocols (Ethernet) Yes • TCP/IP Yes Further protocols No • MODBUS No • other bus systems No Communication functions No Wireless communication - Radio standards - Radio standard WLAN 802.11 Yes EMC Emission of radio interference acc. to EN 55 011		
PROFIBUS No Protocols (Ethernet) - • TCP/IP Yes Further protocols - • MODBUS No • other bus systems No Communication functions No Wireless communication - • supported standards - Radio standard WLAN 802.11 Yes EMC - Emission of radio interference acc. to EN 55 011		
Protocols (Ethernet) Yes • TCP/IP Yes Further protocols No • MODBUS No • other bus systems No Communication functions Wireless communication • supported standards – — Radio standard WLAN 802.11 Yes EMC Emission of radio interference acc. to EN 55 011		
• TCP/IP Yes Further protocols No • MODBUS No • other bus systems No • other bus systems No Communication functions Vireless communication • supported standards Yes - Radio standard WLAN 802.11 Yes Emission of radio interference acc. to EN 55 011 Ves		No
Further protocols No • MODBUS No • other bus systems No Communication functions No Wireless communication - • supported standards - — Radio standard WLAN 802.11 Yes EMC - Emission of radio interference acc. to EN 55 011		
• MODBUS No • other bus systems No Communication functions No Wireless communication • supported standards • supported standards - Radio standard WLAN 802.11 Yes EMC Emission of radio interference acc. to EN 55 011		Yes
• other bus systems No Communication functions Image: Communication • supported standards Image: Communication • Radio standard WLAN 802.11 Yes EMC Image: Communication function function function Emission of radio interference acc. to EN 55 011 Image: Communication function function function function function function function		
Communication functions Wireless communication • supported standards — Radio standard WLAN 802.11 Yes EMC Emission of radio interference acc. to EN 55 011		
Wireless communication • supported standards — Radio standard WLAN 802.11 Yes EMC Emission of radio interference acc. to EN 55 011	-	NO
• supported standards — Radio standard WLAN 802.11 Yes EMC Emission of radio interference acc. to EN 55 011		
Radio standard WLAN 802.11 Yes EMC Emission of radio interference acc. to EN 55 011		
EMC Emission of radio interference acc. to EN 55 011		
Emission of radio interference acc. to EN 55 011		Yes
	EMC	
• Limit class A, for use in industrial areas Yes; The product is designed for use in industrial environments. When	Emission of radio interference acc. to EN 55 011	
	 Limit class A, for use in industrial areas 	Yes; The product is designed for use in industrial environments. When

used in residential areas, the emission of radio interference according to limit class B of EN 55011 must be ensured. For further information refer to the user documentation

Standards, approvals, certificates	
Certificate of suitability	cULus, RCM (former C-TICK)
CE mark	No
cULus	Yes
RCM (formerly C-TICK)	Yes
Suitable for safety functions	Yes
TÜV safety certification	Yes
Highest safety class achievable in safety mode	
 Performance level according to ISO 13849-1 	е
 SIL acc. to IEC 61508 	SIL 3
Ambient conditions	
Free fall	
 Fall height, max. 	1.2 m
Ambient temperature during operation	
• min.	0 °C
• max.	40 °C
Ambient temperature during storage/transportation	
• min.	-20 °C
• max.	60 °C
Relative humidity	
• Operation, max.	80 %
Operating systems	
pre-installed operating system	Windows CE
Configuration	
Message indicator	Yes
Alarm system (incl. buffer and acknowledgment)	Yes
Process value display (output)	Yes
Process value display (output) Process value default (input) possible	Yes
Recipe management	Yes
Configuration software	165
Configuration tool	WinCC flexible Standard Version 2008 SP2 and higher (to be ordered
	separately)
WinCC flexible Compact	No
WinCC flexible Standard	Yes
WinCC flexible Advanced	No
WinCC Basic (TIA Portal)	No
WinCC Comfort (TIA Portal)	Yes; V11 SP2 or higher
WinCC Advanced (TIA Portal)	Yes; V11 SP2 or higher
WinCC Professional (TIA Portal)	Yes; V11 SP2 or higher
Languages	
Online languages	
Number of online/runtime languages	16
Project languages	
Languages per project	32
Functionality under WinCC (TIA Portal)	
Libraries	Yes
Applications/options	Internet Explorer, Sm@rtService, Sm@rtAccess
Web browser	Yes
SIMATIC WinCC Sm@rtServer	Yes
Number of Visual Basic Scripts	Yes
Task planner	Yes
Help system	Yes
Number of characters per info text	70
Message system	
Number of alarm classes	32

 Ist messages In messages Ves Analog messages Ves Number of harnessages PLC Ves System messages PLC Ves Ves Number of haracters per message 0 Number of process values per message 8 Adanowidgement groups 9 Messages indicator Ves Finatian value Ves Finatian value Ves Finatian value Ves Ves Adanowidgement groups 90 Message indicator Ves Finatian value Ves Finatian value Ves Finatian value Ves Ves<	24	
Analog messages Analog messages Yes Wath Number of analog messages 4000 System messages PLC Yes System messages PLC Yes System messages PLC Yes Unitse Initse Number of characters per message 80 Advowledgment groups Advowledgment groups Analog message Analog Analog message Analog message	Bit messages	Yes
- Number of nanalog messages 4 000 • System messages PLC Yes • Lines 1 • Number of characters per message 0 • Number of schowledgement groups • Persitisat value • Number of recipes • Solo • Entres per data record • Number of variables per device • Number of variables per device • Number of variables per scheme • Number of configurable images • Structures • Structures • Number of configurable images • Number of chalters here here • Number of chalters here here • Number of lo Glebs per minage • Number of lo Glebs per minage • Number of of date time fields • Number of of objects per project • Number of of objects per project • Number of numerals fields per image • Number of numerals fields per image • Number of numerals fields per i	-	
 System messages Hvil System messages Hvil System messages Hvil System messages Hvil Number of characters par message Number of process values per message Acknowledgment groups 		
 System message PLC Lives Number of characters per message Number of characters per message Acknowledgment groups 		
 Lines Number of baracters per message Acknowledgment groups Particle of acknowledgment groups Acknowledgment groups Particle of acknowledgment groups Particle of acknowledgrowledgment groups Particle of		
• Number of characteris per message 80 • Acknowledgment groups 80 - Number of acknowledgment groups 99 • Message indicator Yes • First/last value Yes • First/last value Yes • Number of racipes 300 • Data records per fracipe 500 • Entries per data record 1000 • Recipe memory 64 KB integrated Flash, expandable • Number of variables per device 2 048 • Number of variables per screen 200 • Number of variables per device 2 048 • Type Date & Time 2 048 • Type Date & Time 2 048 • Multiphing Yes • Start screen configurable Yes • Start screen configurable Yes • Image selection by PLC Yes • Image selection by PLC Yes • Number of dateline fields 200 • Number of dateline fields 200 </td <td></td> <td></td>		
• Number of process values per message 8 • Number of acknowledgement groups 99 • Message indicator Yes • First/alta value Yes • Reizer management 300 • Data records per recipe 500 • Entrins per data record 1000 • Recipe memory 64 KB integrated Flash, expandable Variables 2043 • Number of variables per screen 200 • Number of configurable Yes • Structures Yes • Structures Yes • Structures Yes • Number of configurable Yes • Structures		
 Adxnowledgment groups Number of acknowledgment groups Message indicator Firstlast value Yes Firstlast value Yes Recipe management Number of recipes Stot Entries per data record 1000 Recipe memory 4 KB integrated Flash, expandable Versities Number of variables per device 2 048 Number of variables per screen 200 Number of variables per screen 200 Number of variables per screen 200 Number of variables 1000 Initial values Yes Yes Structures Yes Structures Yes Structures Yes Structures Yes Structures Yes Image sclecton by PLC Yes Number of lub fields per image 1000 Return Yes, With SIMATIC S7 Opiner instruments Number of adaet/me fields 200 Return Number of adaet per project Iono Number of adaet per project Number of adaet per image Number of adaet per project Number of adaet per project Number of adaet per image Number of adaet per image		
Number of acknowledgement groups 99 • Message indicator Yes • Firsthast value Yes • Recipe management 90 • Number of racipes 300 • Data records per racipe 500 • Encipe memory 64 KB integrated Flash, expandable Variabis 2 048 • Number of variables per screen 200 • Number of variables per screen 2 048 • Type Date & Time 2 048 • Type Date & Time 2 048 • Limit values Yes • Multiplexing Yes • Multiplexing Yes • Number of configurable images 500 • Permanet windowlefault Yes • Image selection by PLC Yes • Image selection by PLC Yes • Number of date flints fields 200 • Number of dates per image 200 • Number of dates per image 200 • Image selection by PLC Yes • Image selection by PLC Yes • Number of dates per image 200 </td <td>· · · -</td> <td>8</td>	· · · -	8
Alexage indicator First/last value Yes First/last value Yes First/last value Yes Aumber of recipes Solo So		00
• First/last value Yes Recipe management • • Number of recipes 300 • Data records per recipe 500 • Entries per data record 1000 • Recipe memory 64 KB integrated Flash, expandable Variables 2 048 • Number of variables per screen 200 • Number of variables per screen 2 048 • Type Date & Time 2 048 • Linit values 2 048 • Linit values 2 048 • Linit values Yes • Structures Yes • Number of configurable images 500 • Permanent window/default Yes • Inage selection by PLC Yes • Image number in the PLC Yes • Image number in the PLC Yes • Return Yes • Return Yes • Return Yes • Status/control Yes • Return Yes • Return Yes • Status/control Yes • Return		
Recipe management	-	
• Number of recipes 300 • Data records per recipe 500 • Encipe prenory 64 KB integrated Flash, expandable Variables 2 048 • Number of variables per screen 200 • Number of variables per screen 2 048 • Number of variables 1 000 • Number of variables 2 048 • Number of oronfigurable 2 048 • Number of configurable images 500 • Structures Yes • Number of configurable images 500 • Regreschedon by PLC Yes • Image selection by PLC Yes • Image objects 10 000 text elements • Number of I/O fields per image 200 • Number of object b 10 000 text elements • Regreschedon 1000 • Regreschedon 1000 • Regreschedon 1000 • Regreschedon 1000 • Regreschedon 100 • Regreschedon 1000 • Regreschedon 1000 • Regreschedon 100 • Regreschedon		165
• Data records per recipe500• Entries per data record1 000• Recipe memory64 KB integrated Flash. expandableVariables2 048• Number of variables per screen200• Number of variables per screen2 048• Number of variables1 000• Initial values2 048• Type Date & Time2 048• Number of oringlurable images2 048• Number of configurable images500• Number of configurable images500• Remanent windowidefaultYes• Start screen configurable images500• Permanent windowidefaultYes• Start screen configurableYes• Text objects10 000 text elements• Number of Variables per image200• Number of Variables per image200• Number of Variables per image200• ReturnYes• Text objects10 000 text elements• Carptics object10 000• Comptex image objects200• Number of Variables per project1 000• Number of Variables per project1 000• Number of objects per project1 000• Number of objects per project1 000• Number of alacing indicators per image10• Number of analog indicators per image10		300
• Entries per data record 1 00 • Recipe memory 64 KB integrated Flash, expandable • Number of variables per device 2 048 • Number of variables per screen 200 • Number of variables per screen 200 • Number of variables 1 000 • Number of variables 2 048 • Yope Date & Time 2 048 • Yope Date & Time 2 048 • Unitit values 2 048 • Unitit values 2 048 • Number of onfigurable images 2 048 • Structures Yes • Number of configurable images 500 • Remanent windowidefault Yes • Start screen configurable Yes • Image selection by PLC Yes • Image objects 10 000 text elements • Number of Volf fields per image 200 • Number of date/time fields 200 • Return Yes • Graphics object 10 000 text elements • Jong of date/time fields 200 • Return Yes • Status/control Diagrams, bar graphs, silders, analog display, invisible buttons • Number of objects per project 1 000 • Number of dure diagrams per image 10 • Number of alobars per chart <td>·</td> <td></td>	·	
• Recipe memory 64 KB integrated Flash, expandable Variables 2 048 • Number of variables per screen 200 • Number of variables per screen 2 048 • Initial values 2 048 • Type Date & Time 2 048 • Limit values 2 048 • Limit values Yes • Mumber of configurable images 500 • Kumber of configurable images 500 • Recipe memory Yes • Number of configurable images 500 • Remanent window/default Yes • Stractere configurable Yes • Image selection by PLC Yes • Image selection by PLC Yes • Text objects 10 000 text elements • Number of I/O fields per image 200 • Return Yes • Graphics object 1000 • Oraplex image objects Ves: With SIMATIC S7 • Mumber of objects per project 100 • Number of alos per image 10 • Mumber of alos per image 10 • Mumber of alos per imag		
Variables • Number of variables per screen 200 • Number of variables 1000 • Initial values 2048 • Type Date & Time 2048 • Limit values 2048 • Limit values 2048 • Limit values Yes • Number of configurable images 500 • Permanent window/default Yes • Structures Yes Image solection by PLC Yes • Image ablects 10 000 text elements • Number of date/time fields 200 • Number of U/D fields per image 200 • Number of date/time fields 200 • Return Yes • Graphics object Bit maps, icons, vector graphics - Icons 10000 Complex image objects Diagrams, bar graphs, sliders, analog display, invisible buttons - Number of baits per project 1000 • Winther of allog and indicators per image 10 • Graphics objects Diagrams, bar graphs, sliders, analog display, invisible buttons - Number of baits per chart 10 • Sitiders - Number of alalog indicators per im	•	
 Number of variables per device 2 048 Number of variables per screen 200 Number of variables per screen 200 Initial values 2 048 Type Date & Time 2 048 I'try values Yes Structures Yes Structures Yes Structures Permanent window/default Yes Start screen configurable images Stock screen configurable Yes Image selection by PLC Yes Number of I/O fields per image Quot Number of oddefine fields 200 Number of oddefine fields 200 Number of oddefine fields 200 Number of odjects I 000 Complex image objects I Number of objects per project Number of alarging and sper image Number of alarging image Number of objects per image Number of objects per image Number of alarging image Number of alargin image Number of alarg		
Number of variables per screen200Number of variables1000Inidial values2 048Type Date & Time2 048Imit valuesYesMultiplexingYesMultiplexingYesMultiplexingYesNumber of configurable images500Permanent window/defaultYesNumber of configurable images500Permanent window/defaultYesStart screen configurableYesImage selection by PLCYesImage ballects7000Image outpets2000Number of I/O fields per image2000Number of l/O fields per image2000Number of objects10 000 text elements- Icons1000Complex image objects10000- Icons1000Complex image objectsDiagrams, bar graphs, sliders, analog display, invisible buttons- Number of objects per project1000- Number of objects per project1000- Number of objects per project1000- Number of objects per project100- Number of analog indicators per image10- Number of analog indicators per image200- Number of analog indicators per image200- Number of analo		2 048
Number of variables1 000• Number of variables2 048• Type Date & Time2 048• Linit valuesYes• MultiplexingYes• StructuresYes• Number of configurable images500• Permanent window/defaultYes• Start screen configurableYes• Image selection by PLCYes• Image selection by PLCYes• Image selection by PLCYes• Text objects10 000 text elements• Number of date/time fields200• Number of date/time fields200• ReturnYes• Complex image objects1000• Other of date/time fields200• Number of date/time fields200• Number of date/time fields200• ReturnYes• Status/control1000• Outpets1000• Number of duro bjectsDiagrams, bar graphs, silders, analog display, invisible buttons• Number of ourve diagrams per image10• Number of objects per project1000• Number of bars per chart10• Number of sildes per image10• Number of analog indicators per image200• Number of alphanumerical fields300• alphanumerical fields300• alphanumerical fields2048• numerical fields per image2048<		
 initial values 2 048 Type Date & Time 2 048 Unit values Yes Multiplexing Yes Structures Yes Structures Number of configurable images S00 Permanent window/default Yes Start screen configurable Yes Start screen configurable Yes Image selection by PLC Yes Image objects Test objects It optical factors Number of Vol fields per image Q00 Return Graphics object Bit maps, icons, vector graphics I oto0 rest with SIMATIC S7 Objects Status/control Yes; With SIMATIC S7 Objects I outour diagrams per image Outour diagrams per image I outour diagrams per image Number of curve diagrams per image Number of curve diagrams per image Number of sclies per project Number of sclies per image Num		
• Type Date & Time2 048• Limit valuesYes• MultiplexingYes• StructuresYes• Number of configurable images500• Permanent window/defaultYes• Start screen configurableYes• Image selection by PLCYes• Image number in the PLCYes• Image objects10 000 text elements• Number of dot fields per image200• Number of dot dot fields per image10 000• Complex image objects1000• Orangic objects per project1 000• Number of curve diagrams per image10• Muthor of slides per chart10• Silders10• Number of slides per image10• Number of slides per image10• Number of alphanumerical fields300• Number of alphanumerical fields300• alphanumerical fields per image200• Number of alphanumerical fields200• Number of alphanumerical fields200• Number of alphanumerical		
 Linit values Yes Multiplexing Structures Yes Structures Yes Structures Solution Permanent window/default Yes Start screen configurable images Solution Start screen configurable Yes Start screen configurable Yes Start screen configurable Yes Image selection by PLC Yes Image objects Text objects Number of I/O fields per image Quot Return Graphics object Ionoo Complex image objects Status/control Mumber of objects per project Status/control Wes Methods Trend / profile Bar graphs Number of slides per image Methods Trend / profile Bar graphs Number of slides per image Number of analog indicators per image Pointer instruments Number of analog indicators per image Number of analog indicators per image Uitint value lines Yes Number of analog indicators per image Intim value lines Yes Number of analog indicators per image Intim value lines Yes Number of analog indicators per image Intim value lines Yes Number of analog indicators per image Intim value lines Yes Number of alphanumerical fields Quot 		
• MultiplexingYes• StructuresYesImages500• Permanent window/defaultYes• Start screen configurable images500• Image selection by PLCYes• Image selection by PLCYes• Image solection by PLCYes• Image objects10 000 text elements• Number of tu/O fields per image200• Number of du/O fields per image10 000• Complex image objects10 000• Complex image objects10 000• Oraphics objectsDiagrams, bar graphs, sliders, analog display, invisible buttons• Number of objects per project1 000• Number of objects per project1 000• Number of bars per chart10• Mumber of bars per chart10• Number of slides per image10• Number of slides per image10• Number of alalog indicators per image200• Number of alalog indicators per image200<		
StructuresYesImagesNumber of configurable images500Permanent window/defaultYesStart screen configurableYesImage selection by PLCYesImage number in the PLCYesText objects10 000 text elementsNumber of I/O fields per image200Number of date/time fields200ReturnYesGraphics objectsBit maps, icons, vector graphics- Icons10 000Complex image objectsDiagrams, bar graphs, sliders, analog display, invisible buttons- Number of objectsDiagrams, bar graphs, sliders, analog display, invisible buttons- Number of curve diagrams per image10MethodsTrend / profileBar graphs10- Number of slides per image10- Number of analog indicators per image10- Number of analog indicators per image10- Number of alphanumerical fields300- Limit value linesYesNumber of alphanumerical fields per image200- Number of analog indicators per image10- Number of alphanumerical fields per image2048- Number of alphanumerical fields per image2048- Number of lines2048- numerical fields per image200		
Images • Number of configurable images 500 • Permanent window/default Yes • Start screen configurable Yes • Image selection by PLC Yes • Image number in the PLC Yes Image objects 10 000 text elements • Number of I/O fields per image 200 • Number of date/time fields 200 • Return Yes • Graphics object Bit maps, icons, vector graphics - Icons 1000 Complex image objects Diagrams, bar graphs, sliders, analog display, invisible buttons - Number of objects per project 1000 - Number of bars per chart 10 • Methods Trend / profile • Bar graphs - - Number of slides per image 10 • Number of slides per image 10 • Pointer instruments 10 • Number of slides per image 10 • Number of alphanumerical fields 300 - alphanumerical fields 300 - alphanumerical fields 204 • Number of numerical fields 2048		
• Number of configurable images 500 • Permanent window/default Yes • Start screen configurable Yes • Image selection by PLC Yes • Image number in the PLC Yes Image objects 10 000 text elements • Number of I/O fields per image 200 • Number of date/time fields 200 • Return Yes • Graphics object Bit maps, icons, vector graphics - lcons 10 000 Complex image objects Yes; With SIMATIC S7 • Status/control Yes; With SIMATIC S7 • Aymber of objects Diagrams, bar graphs, sliders, analog display, invisible buttons - Number of objects Diagrams, bar graphs, sliders, analog display, invisible buttons - Number of objects per project 10 000 • Methods Trend / profile • Bar graphs - - Number of slides per image 10 • Pointer instruments - - Number of analog indicators per image 10 • Pointer instruments - - Number of alphanumerical fields 300 - alphanumerical fields 2048 <		
• Permanent window/defaultYes• Start screen configurableYes• Image selection by PLCYes• Image objectsYes• Text objects10 000 text elements• Number of I/O fields per image200• Number of date/time fields200• ReturnYes• Graphics objectBit maps, icons, vector graphics- Icons1 000Complex image objects10 000• Number of objectsDiagrams, bar graphs, sliders, analog display, invisible buttons• Number of objects1 000• Number of objectsDiagrams, bar graphs, sliders, analog display, invisible buttons• Number of objects1 000• Number of objects per project1 000• Number of bars per chart10• Muthor of bars per chart10• Sliders Number of slides per image10• Number of alphanumerical fields300- Limit value linesYes• Number of alphanumerical fields200• Number of iffels per image200• Number of alphanumerical fields2048- numerical fields per image2048	-	500
 Image selection by PLC Image number in the PLC Yes Image objects Text objects Number of 1/0 fields per image 200 Number of date/time fields 200 Return Graphics object In maps, icons, vector graphics - lcons 1000 Complex image objects Status/control Mumber of objects per project Mumber of objects per project Number of objects per project Mumber of objects per project Number of objects per project Number of bides per image Trend / profile Bar graphs Number of slides per image Pointer instruments Number of analog indicators per image Limit value lines Ves Number of alphanumerical fields 200 Number of fields per image Outouterical fields per image Number of fields per image Outouterical fields 2048 numerical fields per image 200 		Yes
 Image selection by PLC Image number in the PLC Yes Image objects Text objects Number of 1/0 fields per image 200 Number of date/time fields 200 Return Graphics object In maps, icons, vector graphics - lcons 1000 Complex image objects Status/control Mumber of objects per project Mumber of objects per project Number of objects per project Mumber of objects per project Number of objects per project Number of bides per image Trend / profile Bar graphs Number of slides per image Pointer instruments Number of analog indicators per image Limit value lines Ves Number of alphanumerical fields 200 Number of fields per image Outouterical fields per image Number of fields per image Outouterical fields 2048 numerical fields per image 200 	 Start screen configurable 	Yes
Image number in the PLC Yes Image objects 10 000 text elements • Text objects 10 000 text elements • Number of I/O fields per image 200 • Number of date/time fields 200 • Return Yes • Graphics object Bit maps, icons, vector graphics – Icons 1 000 Complex image objects Diagrams, bar graphs, sliders, analog display, invisible buttons • Number of objects per project 1 000 • Number of curve diagrams per image 10 • Mumber of bars per chart 1 00 • Number of slides per image 10 • Number of slides per image 10 • Number of slides per image 10 • Number of analog indicators per image 10 • Number of analog indicators per image 10 • Pointer instruments • Number of analog indicators per image 10 • Limit value lines Yes • Nu	-	Yes
Image objects 10 000 text elements • Text objects 10 000 text elements • Number of l/O fields per image 200 • Number of lotate/time fields 200 • Return Yes • Graphics object Bit maps, icons, vector graphics - lcons 1 000 Complex image objects 1 000 Complex image objects Yes; With SIMATIC S7 • Status/control Yes; With SIMATIC S7 • Aumber of objects per project 1 000 - Number of curve diagrams per image 10 • Methods Trend / profile • Bar graphs - - Number of slides per image 10 • Number of analog indicators per image 10 • Number of analog indicators per image 10 • Linit value lines Yes • Number of alphanumerical fields 300 - alphanumerical fields per image 200 • Number of invercical fields per image 200		Yes
• Text objects10 000 text elements• Number of I/O fields per image200• Number of date/time fields200• ReturnYes• Graphics objectBit maps, icons, vector graphics- Icons1 000Complex image objects000• Status/controlYes; With SIMATIC S7• dynamic objects per project1 000- Number of objects per project1 000- Number of objects per project1 000- Number of dars per chart10• MethodsTrend / profile• Sliders10- Number of slides per image10• Number of analog indicators per image10• Number of alphanumerical fields200• Number of numerical fields per image200• Number of numerical fields per image200		
Number of date/time fields200ReturnYesGraphics objectBit maps, icons, vector graphics- lcons1 000Complex image objects• Status/controlYes; With SIMATIC S7• dynamic objects per projectDiagrams, bar graphs, sliders, analog display, invisible buttons- Number of objects per project1 000- Number of curve diagrams per image10• MethodsTrend / profile• Bar graphs Number of slides per image10• Stiders Number of slides per image10• Number of slides per image10• Number of slides per image10• Number of alphanumerical fields300- alphanumeric fields per image200• Number of numerical fields per image200		10 000 text elements
ReturnYesGraphics objectBit maps, icons, vector graphics- Icons1 000Complex image objects1 000Status/controlYes; With SIMATIC S7• dynamic objectsDiagrams, bar graphs, sliders, analog display, invisible buttons- Number of objects per project1 000- Number of curve diagrams per image10• MethodsTrend / profile• Bar graphs10- Number of baises per chart10• Sliders10- Number of slides per image10• Number of slides per image10• Number of slides per image10• Number of analog indicators per image10• Number of aphanumerical fields300- alphanumerical fields per image200• Number of numerical fields per image200	Number of I/O fields per image	200
Graphics objectBit maps, icons, vector graphicsIcons1000Complex image objects1000• Status/controlYes; With SIMATIC S7• dynamic objectsDiagrams, bar graphs, sliders, analog display, invisible buttonsNumber of objects per project1000Number of curve diagrams per image10• MethodsTrend / profile• Bar graphs10Number of bars per chart10• Sliders10Number of slides per image10• Number of slides per image10• Number of slides per image10• Number of analog indicators per image10• Number of alphanumerical fields300 alphanumeric fields per image200• Number of numerical fields per image200		200
loons1 000Complex image objectsYes; With SIMATIC S7• Status/controlVies; With SIMATIC S7• dynamic objectsDiagrams, bar graphs, sliders, analog display, invisible buttons Number of objects per project1 000 Number of curve diagrams per image10• MethodsTrend / profile• Bar graphs Number of bars per chart10• Sliders Number of slides per image10• Pointer instruments Number of analog indicators per image10• Limit value linesYes• Number of alphanumerical fields300 alphanumeric fields per image200• Number of numerical fields2 048 numerical fields per image200	Return	Yes
Complex image objects • Status/control Yes; With SIMATIC S7 • dynamic objects Diagrams, bar graphs, sliders, analog display, invisible buttons - Number of objects per project 1 000 - Number of curve diagrams per image 10 • Methods Trend / profile • Bar graphs 10 - Number of bars per chart 10 • Sliders 10 - Number of slides per image 10 • Pointer instruments 10 - Number of analog indicators per image 10 • Limit value lines Yes • Number of alphanumerical fields 300 - alphanumeric fields per image 200 • Number of numerical fields 2 048 - numerical fields per image 200	Graphics object	Bit maps, icons, vector graphics
Status/controlYes; With SIMATIC S7• dynamic objectsDiagrams, bar graphs, sliders, analog display, invisible buttons- Number of objects per project1 000- Number of curve diagrams per image10• MethodsTrend / profile• Bar graphs10- Number of bars per chart10• Sliders10- Number of slides per image10• Number of slides per image10• Number of slides per image10• Number of analog indicators per image10• Limit value linesYes• Number of alphanumerical fields300- alphanumeric fields per image200• Number of numerical fields per image200	— Icons	1 000
• dynamic objectsDiagrams, bar graphs, sliders, analog display, invisible buttons- Number of objects per project1 000- Number of curve diagrams per image10• MethodsTrend / profile• Bar graphs Number of bars per chart10• Number of slides per image10• Number of slides per image10• Number of slides per image10• Number of analog indicators per image10• Number of analog indicators per image10• Number of alphanumerical fieldsYes• Number of alphanumerical fields300- alphanumeric fields per image200• Number of numerical fields2 048- numerical fields per image200	Complex image objects	
- Number of objects per project1 000- Number of curve diagrams per image10• MethodsTrend / profile• Bar graphs10- Number of bars per chart10• Sliders10- Number of slides per image10• Pointer instruments10- Number of analog indicators per image10• Limit value linesYes• Number of alphanumerical fields300- alphanumeric fields per image200• Number of numerical fields2048- numerical fields per image200	Status/control	Yes; With SIMATIC S7
Number of curve diagrams per image10• MethodsTrend / profile• Bar graphs10 Number of bars per chart10• Sliders Number of slides per image10• Pointer instruments Number of analog indicators per image10• Limit value linesYes• Number of alphanumerical fields300 alphanumerical fields per image200• Number of numerical fields per image2048 numerical fields per image200	dynamic objects	Diagrams, bar graphs, sliders, analog display, invisible buttons
MethodsTrend / profileBar graphs10- Number of bars per chart10Sliders10- Number of slides per image10Pointer instruments Number of analog indicators per image10Limit value linesYesNumber of alphanumerical fields300- alphanumeric fields per image2048- numerical fields per image200	 — Number of objects per project 	
Bar graphs10- Number of bars per chart10Sliders10- Number of slides per image10Pointer instruments Number of analog indicators per image10Limit value linesYesNumber of alphanumerical fields300- alphanumeric fields per image200Number of numerical fields2 048- numerical fields per image200	 Number of curve diagrams per image 	10
- Number of bars per chart10• Sliders10- Number of slides per image10• Pointer instruments10- Number of analog indicators per image10• Limit value linesYes• Number of alphanumerical fields300- alphanumeric fields per image200• Number of numerical fields2 048- numerical fields per image200	Methods	Trend / profile
 Sliders Number of slides per image Pointer instruments Number of analog indicators per image Limit value lines Number of alphanumerical fields alphanumeric fields per image Number of numerical fields Q00 Number of numerical fields Q00 	Bar graphs	
Number of slides per image10• Pointer instruments10 Number of analog indicators per image10• Limit value linesYes• Number of alphanumerical fields300 alphanumeric fields per image200• Number of numerical fields2 048 numerical fields per image200		10
 Pointer instruments Number of analog indicators per image Limit value lines Number of alphanumerical fields Number of alphanumerical fields alphanumeric fields per image Number of numerical fields Q00 Number of numerical fields Q00 Q00 Q00 		
Number of analog indicators per image10• Limit value linesYes• Number of alphanumerical fields300 alphanumeric fields per image200• Number of numerical fields2 048 numerical fields per image200	· –	10
• Limit value lines Yes • Number of alphanumerical fields 300 — alphanumeric fields per image 200 • Number of numerical fields 2 048 — numerical fields per image 200		
 Number of alphanumerical fields alphanumeric fields per image Number of numerical fields 2 048 numerical fields per image 200 		
— alphanumeric fields per image200• Number of numerical fields2 048— numerical fields per image200		
Number of numerical fields 2 048		
— numerical fields per image 200		
Number of password fields 2 048		
	 Number of password fields 	2 048

 Number of visible switches per project 	200
 visible switches per image 	200
 hidden switches per image 	200
 Number of status switches per project 	200
 — Number of status switches per image 	200
 Number of selector switches per project 	200
— Selector switches per image	200
Number of decade switches per project	200
— Decade switches per image	200
 Number of signal lamps per project 	200
— Signal lamps per image	200
Attributes for dynamic objects	
Color change	Yes
• X/Y movement	Yes
• Hide	Yes
Lists	
Number of text lists per project	500
Number of text lists per image	200
Number of entries per text list	256
Number of graphics lists per project	400
Number of graphic lists per image	200
	256
Number of entries per graphics list Archiving	230
Number of archives per device	20
	20
Number of measuring points per project	
Number of entries per archive	10 000
Message archive	Yes
Process value archive	Yes
Archiving methods	
— Sequential archive	Yes
— Short-term archive	Yes
Memory location	MultiMediaCard
 Data storage format 	
— CSV	Yes
 Online evaluation 	
— using trend curves	Yes
Filters	
• cyclic	Yes
Tolerance	Yes
Change	Yes
Security	
 Number of user groups 	50
 Number of user rights 	32
 Password export/import 	Yes
Logging through printer	
Recording/Printing	Alarms, report (shift report), PROFINET
Transfer (upload/download)	
 Transfer of configuration 	USB, Ethernet, automatic transfer recognition
Wireless LAN	Yes
Process coupling	
 Connection to controller 	S7-200, S7- 300/400 see section on "System interfaces"
• S7-1200	Yes
• S7-1500	Yes; As of V13 SP1 Update 4, PROFIsafe communication also possible
• S7-200	Yes
— Ethernet	Yes
• S7-300/400	Yes
- PROFINET	Yes
SIMOTION	Yes; WinCC flexible 2008 SP3 or higher

70000	Vec
• Zones	Yes
— Number of zones per project, max.	254
 Number of transponders for zones per project, max. 	255
 Effective range 	Yes
 — Number of effective ranges per project, max. 	127
 Number of transponders for effective ranges per project, max. 	127
Transponder	Yes
 — Number of transponders per project, max. 	256
 adjustable distance range 	Yes
— adjustable distance, min.	2 m
— adjustable distance, max.	8 m
Functions	
TAB sequence	Yes
 Calculating functions 	Yes
Animate	Yes
Service tools/configuration aids	
Clean screen	Yes
 Touch calibration 	Yes
 Backup/Restore manually 	Yes
Simulation	Yes
Device switchover	Yes
Delta transfer	Yes
Peripherals/Options	
Peripherals	Barcode reader
SIMATIC HMI MM memory card: Multi Media Card	Yes
SIMATIC HMI SD memory card: Secure Digital memory card	Yes
USB memory	Yes
Additional software components loadable	Yes
Mechanics/material	
Enclosure material (front)	plastic
Dimensions	
Enclosure diameter	290 mm
Depth of housing	103 mm
Weights	
Weight (without packaging)	2.2 kg
last modified:	3/30/2021 🖸