## **SIEMENS**

## **Data sheet**

## 6AV7880-0FB22-2DA2

SIMATIC ITP1000, 8 function keys, Ethernet 10/100/1000 Mbit/s, 1x RS232, 2x USB 3.0, 1x UAJ, 1x USB type-C, 1x SD card reader, Wifi 802.11 a/b/c/g, Bluetooth, Lithium-ion battery; 10" Multitouch (1280 x 800); Bar code scanner and camera; 512 GB SSD; Windows 10 Enterprise 2015 LTSB, 64-bit; MUI (en,de,fr,it,es); Core I5-6442EQ; 16 GB RAM; 110/230 V AC power supply unit, Power supply cable for USA; without software (included);

Design of the programming device Display  Design of display  Resolution (pixels)  • Horizontal image resolution • Vertical image resolution • Supplied of the Development of the Supplied of Supplied	General information	
Design of display  Resolution (pixels)  - Horizontal image resolution  - Vertical image resolution  - Vertical image resolution  - So pixel; 1 920 pixels  - Luminance  - Luminance  - Luminance  Backlighting  - Type of backlighting  - Type of backlighting  - Touch  Control elements  Keyboard fonts  - Design  - Integrated touch pad  No  Supply voltage  Design of the power supply permissible range, lower limit (AC) permissible range, lower limit (AC) permissible range, lower limit - permissible range, lower limit - permissible range, lower limit - permissible range, upper limit  - Processor type  Processor type  Celeron G3902 (2C/2T, 1.6 GHz, 2 MB cache); Intel Core i5-6442EQ (6 MB cache, up to 2.70 GHz, IAMT)  No  Turb Boost Technology 2.0  Graphic  Graphics controller  Drives  SSD  Yes  - Memory capacity  Type demory  Linegrated - A Cybre, 8 GB or 16 GB  Accumulator  Replaceable  Yes; Lithium-ion battery  Test Lithium-ion battery	Design of the programming device	Tablet PC
Resolution (pixels)  • Horizontal image resolution  • Vertical image resolution  • Vertical image resolution  • Vertical image resolution  • Vertical image resolution  • Luminance  • Luminance  • Luminance  • Luminance  • Supply of backlighting  • Type of backlighting  • Type of backlighting  • Type of backlighting  • Touch  Control elements  Keyboard fonts  • Design  Touch  Touch operation  • Integrated touch pad  No  Supply voltage  Design of the power supply  permissible range, lower limit (AC)  permissible range, upper limit (AC)  permissible range, upper limit  • permissib	Display	
Horizontal image resolution     Vertical image resolution     800 pixel; 1 200 pixels     Ceneral features     Luminance     220 cd/m², 350 cd/m²  Backlighting     Type of backlighting     Type of backlighting     Touch  Control clomants  Keyboard fonts     Design     Touch  Touch operation     Integrated touch pad     No  Supply voltage  Design of the power supply     permissible range, lower limit (AC)     permissible range, ower limit     permissible range, ower limit     permissible range, ower limit     permissible range, upper limit     Processor Processor type  Processor type  Celeron G3902 (2C/2T, 1,6 GHz, 2 MB cache); Intel Core i5-6442EQ (6 MB cache, up to 2.70 GHz, IAMT)  No Turbo Boost Technology 2.0  Yes  Graphic  Graphic controller  Intel® HD graphics 530  Pressor SSD     Ne     Memory capacity     256 Gbyte; Up to 512 GB SSD  TPM Security Chip     Wes  Memory  Type of memory     DDR4-SDRAM SO-DIMM  Poccumulator  Press Lithium-ion battery  Yes; Lithium-ion battery  Pres; Lithium-ion battery	Design of display	10" multi-touch
• Vertical image resolution  General features  • Luminance  Backlighting  • Type of backlighting  • Type of backlighting  • Type of backlighting  • Type of backlighting  • Touch  Control elements  Keyboard fonts  • Design  Touch  Touch operation  • Integrated touch pad  No  Supply voltage  Design of the power supply  permissible range, lower limit (AC)  permissible range, upper limit (AC)  permissible range, upper limit  • permissible range, up	Resolution (pixels)	
e Luminance 220 cd/m², 350 cd/m² Backlighting  • Type of backlighting  • Type of backlighting  • Type of backlighting  LED  Control elements  Keyboard fonts  • Design Touch  Touch operation  • Integrated touch pad No  Supply voltage  Design of the power supply External wide-range power supply; 3-pole permissible range, lower limit (AC) 100 V; ±10 %, sinusoidal permissible range, lower limit (AC) 240 V; ±10 %, sinusoidal  Line frequency  • permissible range, upper limit (AC)  processor  Processor type  Celeron G3902 (2C/2T, 1.6 GHz, 2 MB cache); Intel Core i5-6442EQ (6 MB cache, up to 2.70 GHz, iAMT)  No  Turbo Boost Technology 2.0 Yes  Graphic  Graphic controller Intel® HD graphics 530  Drivos  SSD Yes  • Memory capacity 256 Gbyte; Up to 512 GB SSD  TPM Security Chip Yes  Memory  Type of memory  • integrated 4 Gbyte; 8 GB or 16 GB  Accumulator  Replaceable Yes; Lithium-ion battery	Horizontal image resolution	1 280 pixel; 1 920 pixels
Luminance  Backlighting  Type of backlighting  Type of backlighting  LED  Control elements  Keyboard fonts  Design Touch  Touch  Touch  Touch  Touch peration  Integrated touch pad No  Supply voltage  Design of the power supply  permissible range, lower limit (AC)  permissible range, upper limit (AC)  Line frequency  permissible range, upper limit (AC)  Line frequency  permissible range, upper limit  47 Hz permissible range, upper limit  63 Hz  Processor  Processor V  Processor V  Processor Lumber (AC)  Hyper-threading No  Turbo Boost Technology 2.0  Graphic  Graphic Controller  Drives  SSD Yes  Memory capacity  Yes  Memory  Type of memory  Posser Lithium-ion battery  Ves: Lithium-ion battery  Yes: Lithium-ion battery  Processor  Processor  Processor V  Prof memory  Processor V  Prof memory  Processor V  Prof memory  Prof memory  Processor V  Prof memory  Processor V  Prof memory  Prof memory  Processor V  Prof memory  Prof me	Vertical image resolution	800 pixel; 1 200 pixels
e Type of backlighting  • Type of backlighting  • Type of backlighting  Control elements  Keyboard fonts  • Design  Touch  Touch operation  • Integrated touch pad  Supply voltage  Design of the power supply  permissible range, lower limit (AC)  permissible range, lower limit (AC)  permissible range, upper limit (AC)  Line frequency  • permissible range, upper limit (AC)  permissible range, upper limit (AC)  permissible range, lower limit  47 Hz  • permissible range, upper limit  63 Hz  Processor  Processor type  Celeron G3902 (2C/2T, 1.6 GHz, 2 MB cache); Intel Core i5-6442EQ (6 MB cache, up to 2.70 GHz, IAMT)  Hyper-threading  No  Turbo Boost Technology 2.0  Yes  Graphic  Graphic controller  Intel® HD graphics 530  Prives  SSD  Yes  • Memory capacity  Yes  • Memory capacity  Type of memory  DDR4-SDRAM SO-DIMM  Work memory  • integrated  • 4 Gbyte; 8 GB or 16 GB  Accumulator  Replaceable  Yes; Lithium-ion battery	General features	
■ Type of backlighting     Control elements  Keyboard fonts      ■ Design     Touch Touch operation      ■ Integrated touch pad     No  Supply voltage  Design of the power supply permissible range, lower limit (AC) permissible range, lower limit (AC) permissible range, upper limit (AC) permissible range, lower limit permissible range, lower limit 47 Hz permissible range, lower limit permissible range, lower limit shade the permissible range, lower limit permissible range, lower limit permissible range, lower limit shade the permissible range, lower limit permissible range, lower limit permissible range, lower limit shade the permissible range, lower limit processor  Processor  Celeron G3902 (2C/2T, 1.6 GHz, 2 MB cache); Intel Core i5-6442EQ (6 MB cache, up to 2.70 GHz, iAMT)  Myper-threading No Turbo Boost Technology 2.0 Yes  Graphic  Graphic  Graphic sontroller Intel® HD graphics 530  Prives  SSD Pes Memory Almoory Type of memory DDR4-SDRAM SO-DIMM Work memory  integrated A Gbyte; 8 GB or 16 GB  Accumulator Replaceable Yes; Lithium-ion battery	• Luminance	220 cd/m²; 350 cd/m²
Control elements         Keyboard fonts          • Design	Backlighting	
Keyboard fonts  Design Touch Touch operation  Integrated touch pad  No  Supply voltage  Design of the power supply permissible range, lower limit (AC) permissible range, upper limit (AC) permissible range, lower limit 47 Hz permissible range, lower limit 47 Hz permissible range, upper limit 47 Hz Processor Processor Processor type Celeron G3902 (2C/2T, 1.6 GHz, 2 MB cache); Intel Core i5-6442EQ (6 MB cache, up to 2.70 GHz, IAMT) No Turbo Boost Technology 2.0 Yes Graphic Graphic Craphics controller Intel® HD graphics 530  Drives SSD Processor Prescurity Chip Yes  Memory Type of memory Vork memory  Intel of GB  Accumulator Replaceable Yes; Lithium-ion battery Proces Schort Sternic GB  Accumulator Replaceable Yes; Lithium-ion battery	Type of backlighting	LED
■ Design Touch Touch operation ■ Integrated touch pad No  Supply voltage  Design of the power supply External wide-range power supply; 3-pole permissible range, lower limit (AC) 100 V; ±10 %, sinusoidal permissible range, upper limit (AC) 240 V; ±10 %, sinusoidal Line frequency ■ permissible range, lower limit 47 Hz ■ permissible range, upper limit 63 Hz  Processor  Processor Processor type Celeron G3902 (2C/2T, 1.6 GHz, 2 MB cache); Intel Core i5-6442EQ (6 MB cache, up to 2.70 GHz, IAMT)  Hyper-threading No Turbo Boost Technology 2.0 Yes  Graphics Graphics Graphics controller Intel® HD graphics 530  Drives  SSD Yes ■ Memory capacity 256 Gbyte; Up to 512 GB SSD  TPM Security Chip Yes  Memory  Type of memory Work memory ■ ODR4-SDRAM SO-DIMM Work memory ■ integrated 4 Gbyte; 8 GB or 16 GB  Accumulator Replaceable Yes; Lithium-ion battery	Control elements	
Touch operation  Integrated touch pad  No  Supply voltage  Design of the power supply permissible range, lower limit (AC) permissible range, upper limit (AC) permissible range, upper limit (AC) Line frequency  Integrated touch pad  Accumulator  Processor type  Celeron G3902 (2C/2T, 1.6 GHz, 2 MB cache); Intel Core i5-6442EQ (6 MB cache, up to 2.70 GHz, iAMT)  Possible range, upper limit  Processor type  Celeron G3902 (2C/2T, 1.6 GHz, 2 MB cache); Intel Core i5-6442EQ (6 MB cache, up to 2.70 GHz, iAMT)  No  Turbo Boost Technology 2.0  Graphic  Graphic  SSD  Yes  No Memory  Type of memory  DDR4-SDRAM SC-DIMM  Work memory  Integrated  Accumulator  Replaceable  Yes: Lithium-ion battery	Keyboard fonts	
● Integrated touch pad  Supply voltage  Design of the power supply External wide-range power supply; 3-pole permissible range, lower limit (AC) 100 V; ±10 %, sinusoidal permissible range, upper limit (AC) 240 V; ±10 %, sinusoidal  Line frequency  ● permissible range, lower limit 47 Hz  ● permissible range, upper limit 63 Hz  Processor  Processor  Processor type Celeron G3902 (2C/2T, 1.6 GHz, 2 MB cache); Intel Core i5-6442EQ (6 MB cache, up to 2.70 GHz, iAMT)  Hyper-threading No Turbo Boost Technology 2.0 Yes  Graphic  Graphic Core Intel® HD graphics 530  Drives  SSD Yes  ● Memory capacity 256 Gbyte; Up to 512 GB SSD  TPM Security Chip Yes  Memory  Type of memory  ● integrated 4 Gbyte; 8 GB or 16 GB  Accumulator  Replaceable Yes: Lithium-ion battery	Design	Touch
Design of the power supply Design of the power supply permissible range, lower limit (AC) permissible range, upper limit (AC) 100 V; ±10 %, sinusoidal permissible range, upper limit (AC) Line frequency • permissible range, lower limit • permissible range, upper limit  63 Hz  Processor  Processor type Celeron G3902 (2C/2T, 1.6 GHz, 2 MB cache); Intel Core i5-6442EQ (6 MB cache, up to 2.70 GHz, iAMT)  Hyper-threading No Turbo Boost Technology 2.0 Yes  Graphic Graphic Graphic Intel® HD graphics 530  Drives SSD Yes • Memory capacity 256 Gbyte; Up to 512 GB SSD  TPM Security Chip Yes  Memory  Type of memory Uorks BG or 16 GB  Accumulator Replaceable Yes; Lithium-ion battery	Touch operation	
Design of the power supply permissible range, lower limit (AC) permissible range, upper limit (AC) Line frequency  • permissible range, lower limit • permissible range, lower limit • permissible range, upper limit  • permissible range, upper limit • permissible range, upper limit • permissible range, upper limit • permissible range, upper limit • 3 Hz  Processor  Processor  Processor type Celeron G3902 (2C/2T, 1.6 GHz, 2 MB cache); Intel Core i5-6442EQ (6 MB cache, up to 2.70 GHz, iAMT)  Hyper-threading No Turbo Boost Technology 2.0 Yes  Graphics Graphics Graphics controller Intel® HD graphics 530  Prives  SSD Yes • Memory capacity 256 Gbyte; Up to 512 GB SSD TPM Security Chip Yes  Memory  Type of memory  Work memory • integrated 4 Gbyte; 8 GB or 16 GB  Accumulator  Replaceable Yes; Lithium-ion battery	Integrated touch pad	No
permissible range, lower limit (AC)  permissible range, upper limit (AC)  Line frequency  • permissible range, lower limit • permissible range, lower limit • permissible range, upper limit • permissible range, upper limit • permissible range, upper limit • 3 Hz  Processor  Processor type  Celeron G3902 (2C/2T, 1.6 GHz, 2 MB cache); Intel Core i5-6442EQ (6 MB cache, up to 2.70 GHz, iAMT)  Hyper-threading No Turbo Boost Technology 2.0  Yes  Graphic  Graphic  Graphic Intel® HD graphics 530  Prives  SSD Yes • Memory capacity 256 Gbyte; Up to 512 GB SSD  TPM Security Chip Yes  Memory  Type of memory  DDR4-SDRAM SO-DIMM  Work memory  • integrated  Accumulator  Replaceable Yes; Lithium-ion battery	Supply voltage	
permissible range, upper limit (AC)  Line frequency  • permissible range, lower limit • permissible range, upper limit • permissible range, lower limit • permissible range, upper limit • permissible	Design of the power supply	External wide-range power supply; 3-pole
Line frequency  • permissible range, lower limit 47 Hz  • permissible range, upper limit 63 Hz  Processor  Processor type  Celeron G3902 (2C/2T, 1.6 GHz, 2 MB cache); Intel Core i5-6442EQ (6 MB cache, up to 2.70 GHz, iAMT)  Hyper-threading No Turbo Boost Technology 2.0 Yes  Graphic  Graphic  Graphic controller  Intel® HD graphics 530  Prives  SSD Yes  • Memory capacity 256 Gbyte; Up to 512 GB SSD  TPM Security Chip Yes  Memory  Type of memory  DDR4-SDRAM SO-DIMM  Work memory  • integrated 4 Gbyte; 8 GB or 16 GB  Accumulator  Replaceable  Yes; Lithium-ion battery	permissible range, lower limit (AC)	100 V; ±10 %, sinusoidal
permissible range, lower limit permissible range, upper limit permissible range, lower limit permissible range, upper limit	permissible range, upper limit (AC)	240 V; ±10 %, sinusoidal
● permissible range, upper limit  Processor  Processor type  Celeron G3902 (2C/2T, 1.6 GHz, 2 MB cache); Intel Core i5-6442EQ (6 MB cache, up to 2.70 GHz, iAMT)  Hyper-threading  No  Turbo Boost Technology 2.0  Graphic  Graphic  Graphics controller  Intel® HD graphics 530  Prives  SSD  ● Memory capacity  Type of memory  Type of memory  ● integrated  A Gbyte; 8 GB or 16 GB  Accumulator  Replaceable  Yes; Lithium-ion battery	Line frequency	
Processor type  Celeron G3902 (2C/2T, 1.6 GHz, 2 MB cache); Intel Core i5-6442EQ (6 MB cache, up to 2.70 GHz, iAMT)  Hyper-threading  No Turbo Boost Technology 2.0  Graphic  Graphic  Graphics controller  Intel® HD graphics 530  Drives  SSD  Memory capacity  Yes  Memory  Type of memory  DDR4-SDRAM SO-DIMM  Work memory  • integrated  Accumulator  Replaceable  Yes; Lithium-ion battery	<ul> <li>permissible range, lower limit</li> </ul>	47 Hz
Processor type  Celeron G3902 (2C/2T, 1.6 GHz, 2 MB cache); Intel Core i5-6442EQ (6 MB cache, up to 2.70 GHz, iAMT)  Hyper-threading No  Turbo Boost Technology 2.0  Yes  Graphic  Graphic Intel® HD graphics 530  Drives  SSD  • Memory capacity  TPM Security Chip  Yes  Memory  Type of memory  • integrated  Accumulator  Replaceable  Post Celeron G3902 (2C/2T, 1.6 GHz, 2 MB cache); Intel Core i5-6442EQ (6 MB cache, up to 2.70 GHz, iAMT)  No  Yes  Yes  ODR4-SDRAM SO-DIMM  Yes  Yes; Lithium-ion battery	<ul> <li>permissible range, upper limit</li> </ul>	63 Hz
cache, up to 2.70 GHz, iAMT)  Hyper-threading  No  Turbo Boost Technology 2.0  Graphic  Graphic  Graphics controller  Intel® HD graphics 530  Drives  SSD  • Memory capacity  TPM Security Chip  Yes  Memory  Type of memory  Vork memory  • integrated  Accumulator  Replaceable  Yes, Lithium-ion battery	Processor	
Turbo Boost Technology 2.0  Graphic  Graphic Scontroller Intel® HD graphics 530  Drives  SSD Yes  • Memory capacity 256 Gbyte; Up to 512 GB SSD  TPM Security Chip Yes  Memory  Type of memory DDR4-SDRAM SO-DIMM  Work memory  • integrated 4 Gbyte; 8 GB or 16 GB  Accumulator  Replaceable Yes; Lithium-ion battery	Processor type	
Graphic  Graphics controller  Intel® HD graphics 530  Drives  SSD  Memory capacity  TPM Security Chip  Yes  Memory  Type of memory  Vork memory  integrated  Accumulator  Replaceable  Intel® HD graphics 530  Intel® HD graphics 530  Pesson  Type of memory  256 Gbyte; Up to 512 GB SSD  Yes  DDR4-SDRAM SO-DIMM  4 Gbyte; 8 GB or 16 GB	Hyper-threading	No
Graphics controller  Drives  SSD  • Memory capacity  TPM Security Chip  Yes  Memory  Type of memory  Type of memory  • integrated  Accumulator  Replaceable  Intel® HD graphics 530  Yes  Yes  Yes  DYES  Area  4 Gbyte; Up to 512 GB SSD  TPM 512 GB SSD  Yes  Accumulator  Felaceable  Yes  Lithium-ion battery		Yes
Drives   SSD Yes   ● Memory capacity 256 Gbyte; Up to 512 GB SSD   TPM Security Chip Yes   Memory DDR4-SDRAM SO-DIMM   Work memory DDR4-SDRAM SO-DIMM   ● integrated 4 Gbyte; 8 GB or 16 GB   Accumulator Yes; Lithium-ion battery	Graphic	
SSD  Memory capacity  TPM Security Chip  Yes  Memory  Type of memory  DDR4-SDRAM SO-DIMM  Work memory  integrated  4 Gbyte; 8 GB or 16 GB  Accumulator  Replaceable  Yes; Lithium-ion battery	Graphics controller	Intel® HD graphics 530
● Memory capacity  TPM Security Chip  Yes  Memory  Type of memory  DDR4-SDRAM SO-DIMM  Work memory  ● integrated  4 Gbyte; 8 GB or 16 GB  Accumulator  Replaceable  Yes; Lithium-ion battery	Drives	
TPM Security Chip  Memory  Type of memory  DDR4-SDRAM SO-DIMM  Work memory  integrated  4 Gbyte; 8 GB or 16 GB  Accumulator  Replaceable  Yes; Lithium-ion battery	SSD	Yes
Memory   Type of memory DDR4-SDRAM SO-DIMM   Work memory   • integrated  4 Gbyte; 8 GB or 16 GB  Accumulator  Replaceable  Yes; Lithium-ion battery  • Yes; Lithium-ion battery  • integrated  Yes; Lithium-ion battery  • Yes; Lithium-ion battery  • Integrated  • Integra	Memory capacity	256 Gbyte; Up to 512 GB SSD
Type of memory  Work memory  • integrated  4 Gbyte; 8 GB or 16 GB  Accumulator  Replaceable  Yes; Lithium-ion battery	TPM Security Chip	Yes
Work memory	Memory	
● integrated 4 Gbyte; 8 GB or 16 GB  Accumulator  Replaceable Yes; Lithium-ion battery	Type of memory	DDR4-SDRAM SO-DIMM
Accumulator  Replaceable Yes; Lithium-ion battery	Work memory	
Replaceable Yes; Lithium-ion battery	• integrated	4 Gbyte; 8 GB or 16 GB
	Accumulator	
	Replaceable	Yes; Lithium-ion battery
Capacity 5 900 mA·h	Capacity	5 900 mA·h
Battery runtime, min. 6 h; According to MobileMark 2014	Battery runtime, min.	6 h; According to MobileMark 2014
Interfaces	Interfaces	
Number of industrial Ethernet interfaces 1	Number of industrial Ethernet interfaces	1
Number of RS 232 interfaces 1	Number of RS 232 interfaces	1
Number of USB interfaces 3; USB 3.0	Number of USB interfaces	3; USB 3.0
• Type A 2	• Type A	2
• Type C 1	• Type C	1

But the first term of the firs	V W 2
Bluetooth radio standard	Yes; V4.0
Multimedia card/SD card slot	2 in 1 (SDHC UHS-II, MMC)
Universal Audio Jack	Yes; Audio socket for 3.5 mm jack
Video interfaces	Yes; DP 1.2 (Mini DisplayPort)
DisplayPort     Industrial Ethernet	res, DP 1.2 (Milli DisplayPort)
Industrial Ethernet interface	1v Ethornot /D I/I5)
	1x Ethernet (RJ45) Yes
— 100 Mbps	
— 1000 Mbps	Yes Yes
IAMT (Intel Active Management Technology)  WLAN	Tes
	IEEE 902.11 alblain and ac
Type     Wireless transmission	IEEE 802.11 a/b/g/n and ac
Protocol for wireless transmission	Logic Primo Logic Advant ISO 15602 ISO 14442 A/P
	Legic Prime, Legic Advant, ISO 15693, ISO 14443 A/B 13.56 MHz
Operating frequency (rated value)     Denge may	30 mm; Range depends on transponder
Range, max. Interrupts/diagnostics/status information	30 mm, Range depends on transponder
	Detter about device status access to drive NAU ANI active OD access
LED status display	Battery charge level, device status, access to drive, WLAN active, SD card, application LED
EMC	
Interference immunity against discharge of static electricity	
Interference immunity against discharge of static	Yes; ±4 kV contact discharge (to IEC 801-2/IEC 1000-4-2; ESD), ±8 kV air
electricity acc. to IEC 61000-4-2	discharge (to IEC 801-2/IEC 1000-4-2; ESD)
Interference immunity to cable-borne interference	
<ul> <li>Interference immunity on supply cables</li> </ul>	±2 kV (according to IEC 61000-4-4, burst); ±1 kV (according to IEC 61000-4-5,
	surge pulse/line to line); ±2 kV (according to IEC 61000-4-5, surge pulse/line to ground)
Interference immunity on signal cables	±1 kV (according to IEC 61000-4-4, burst, length < 30 m); ±2 kV (according to
• Interference infinitintly off signal capies	IEC 61000-4-4, burst, length > 30 m); ±2 kV (according to IEC 61000-4-5, surge
	sym./line to ground, length > 30 m)
Degree and class of protection	
IP degree of protection	IP40
Standards, approvals, certificates	
CE mark	Yes
UL approval	Yes
DIN/ISO 9001	Yes
Military use	
Conforms to MIL-STD-810G	Yes
Ambient conditions	
Ambient temperature during operation	
• min.	5 °C; Max. 10 °C/h (no condensation)
• max.	45 °C; Max. 10 °C/h (no condensation)
Ambient temperature during storage/transportation	
• min.	-20 °C; Max. 20 °C/h (no condensation)
• max.	60 °C; Max. 20 °C/h (no condensation)
Relative humidity	
Operation, min.	5 %; At 30 °C/h (no condensation); Tested according to IEC 60068-2-78, IEC 60068-2-30, IEC 60068-2-14
• Operation may	
Operation, max.	85 %; At 30 °C/h (no condensation); Tested according to IEC 60068-2-78, IEC 60068-2-30, IEC 60068-2-14
Vibrations	
Operation, tested according to IEC 60068-2-6	Yes
Shock testing	
• tested according to IEC 60068-2-27	Yes
Operating systems	
Local language of operating system	Multi-Language User Interface (MUI): 6 languages (English, German, French,
3 3 7 1 3 57 1	Spanish, Italian, Chinese)
pre-installed operating system	
• Windows 7	Yes; Ultimate 64 bit, SP1
• Windows 10	Yes; Windows 10 Enterprise 2016 LTSB, 64 bit, MUI
Software	
Preinstalled	
STEP 7 Professional 2010	No

<ul> <li>STEP 7 Professional (TIA Portal)</li> </ul>	No		
• STEP 7	No		
<ul> <li>WinCC flexible Advanced 2008</li> </ul>	No		
<ul> <li>WinCC Advanced (TIA Portal)</li> </ul>	No		
• STEP 5	No		
Mechanics/material	Mechanics/material		
Material of housing	metal		
Magnesium alloy	Yes		
Socket for Kensington lock	Yes		
rubber corner guards	Yes		
Dimensions			
Width	330 mm		
Height	32 mm		
Depth	214 mm		
Weights			
Weight, approx.	1.6 kg; incl. rechargeable battery		
Scope of supply			
Accumulator	Yes		
Power supply	Yes		
Recovery media	Yes; Restore & Recovery		
Other			
free hotline	Yes		
Note:	Made in Germany: development and production in Germany		

last modified:

2/5/2023