SIEMENS

Data sheet



SIMATIC HMI TP1200 Comfort INOX Stainless steel front, Con-tinuous decorative film, Degree of protection front IP66K, 12" widescreen TFT display, PROFINET interface, MPI/PROFIBUS DP interface, 12 MB configuration memory, Windows CE 6.0, (Microsoft Support included Security updates discontinued) configurable from WinCC Comfort V11

General information	
Product type designation	TP1200 Comfort INOX
Display	
Design of display	TFT
Screen diagonal	12.1 in
Display width	261.1 mm
Display height	163.2 mm
Number of colors	16 777 216
Resolution (pixels)	
 Horizontal image resolution 	1 280 pixel
Vertical image resolution	800 pixel
Backlighting	
 MTBF backlighting (at 25 °C) 	80 000 h
Backlight dimmable	Yes; 0-100 %
Control elements	
Keyboard fonts	
 Function keys 	
 Number of function keys 	0
 Number of function keys with LEDs 	0
 Keys with LED 	No
System keys	No
 Numeric keyboard 	Yes; Onscreen keyboard
alphanumeric keyboard	Yes; Onscreen keyboard
Touch operation	
Design as touch screen	Yes
Expansions for operator control of the process	
 DP direct LEDs (LEDs as S7 output I/O) 	
— F1Fx	0
 Direct keys (keys as S7 input I/O) 	
— F1Fx	0
Direct keys (touch buttons as S7 input I/O)	40
Installation type/mounting	
Mounting position	vertical
Mounting in portrait format possible	Yes
Mounting in landscape format possible	Yes
maximum permissible angle of inclination without external ventilation	35°
Supply voltage	
Type of supply voltage	DC

Data dividual (DO)	04.14
Rated value (DC)	24 V
permissible range, lower limit (DC)	19.2 V
permissible range, upper limit (DC)	28.8 V
Input current	0.05.4
Current consumption (rated value)	0.85 A
Starting current inrush I²t	0.5 A ² ·s
Power	
Active power input, typ.	20 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	
NI I COLUMN COLU	4. 0 (it-l-)
Number of industrial Ethernet interfaces	1; 2 ports (switch)
Number of industrial Ethernet interfaces Number of RS 485 interfaces	1; 2 ports (switch) 1; RS 422 / 485 combined
Number of RS 485 interfaces Number of RS 422 interfaces Number of RS 232 interfaces	1; RS 422 / 485 combined 0; together with RS 485 0
Number of RS 485 interfaces Number of RS 422 interfaces Number of RS 232 interfaces Number of USB interfaces	1; RS 422 / 485 combined 0; together with RS 485 0 2; USB 2.0
Number of RS 485 interfaces Number of RS 422 interfaces Number of RS 232 interfaces Number of USB interfaces • USB Mini B	1; RS 422 / 485 combined 0; together with RS 485 0 2; USB 2.0 1; 5-pole
Number of RS 485 interfaces Number of RS 422 interfaces Number of RS 232 interfaces Number of USB interfaces • USB Mini B Number of 20 mA interfaces (TTY)	1; RS 422 / 485 combined 0; together with RS 485 0 2; USB 2.0 1; 5-pole 0
Number of RS 485 interfaces Number of RS 422 interfaces Number of RS 232 interfaces Number of USB interfaces • USB Mini B Number of 20 mA interfaces (TTY) Number of parallel interfaces	1; RS 422 / 485 combined 0; together with RS 485 0 2; USB 2.0 1; 5-pole 0
Number of RS 485 interfaces Number of RS 422 interfaces Number of RS 232 interfaces Number of USB interfaces • USB Mini B Number of 20 mA interfaces (TTY) Number of parallel interfaces Number of other interfaces	1; RS 422 / 485 combined 0; together with RS 485 0 2; USB 2.0 1; 5-pole 0 0
Number of RS 485 interfaces Number of RS 422 interfaces Number of RS 232 interfaces Number of USB interfaces • USB Mini B Number of 20 mA interfaces (TTY) Number of parallel interfaces Number of other interfaces Number of SD card slots	1; RS 422 / 485 combined 0; together with RS 485 0 2; USB 2.0 1; 5-pole 0 0 2
Number of RS 485 interfaces Number of RS 422 interfaces Number of RS 232 interfaces Number of USB interfaces • USB Mini B Number of 20 mA interfaces (TTY) Number of parallel interfaces Number of other interfaces Number of SD card slots With software interfaces	1; RS 422 / 485 combined 0; together with RS 485 0 2; USB 2.0 1; 5-pole 0 0
Number of RS 485 interfaces Number of RS 422 interfaces Number of RS 232 interfaces Number of USB interfaces • USB Mini B Number of 20 mA interfaces (TTY) Number of parallel interfaces Number of other interfaces Number of SD card slots With software interfaces Industrial Ethernet	1; RS 422 / 485 combined 0; together with RS 485 0 2; USB 2.0 1; 5-pole 0 0 2 No
Number of RS 485 interfaces Number of RS 422 interfaces Number of RS 232 interfaces Number of USB interfaces USB Mini B Number of 20 mA interfaces (TTY) Number of parallel interfaces Number of other interfaces Number of SD card slots With software interfaces Industrial Ethernet Industrial Ethernet status LED	1; RS 422 / 485 combined 0; together with RS 485 0 2; USB 2.0 1; 5-pole 0 0 2 No
Number of RS 485 interfaces Number of RS 422 interfaces Number of RS 232 interfaces Number of USB interfaces USB Mini B Number of 20 mA interfaces (TTY) Number of parallel interfaces Number of other interfaces Number of SD card slots With software interfaces Industrial Ethernet Industrial Ethernet status LED Number of ports of the integrated switch	1; RS 422 / 485 combined 0; together with RS 485 0 2; USB 2.0 1; 5-pole 0 0 2 No
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Number of RS 485 interfaces Number of RS 422 interfaces Number of RS 232 interfaces Number of USB interfaces USB Mini B Number of 20 mA interfaces (TTY) Number of parallel interfaces Number of other interfaces Number of SD card slots With software interfaces Industrial Ethernet Industrial Ethernet status LED Number of ports of the integrated switch Protocols PROFINET Supports protocol for PROFINET IO IRT	1; RS 422 / 485 combined 0; together with RS 485 0 2; USB 2.0 1; 5-pole 0 0 0 2 No 2 Yes Yes Yes; As of WinCC V12
Number of RS 485 interfaces Number of RS 422 interfaces Number of RS 232 interfaces Number of USB interfaces USB Mini B Number of 20 mA interfaces (TTY) Number of parallel interfaces Number of SD card slots With software interfaces Industrial Ethernet Industrial Ethernet status LED Number of ports of the integrated switch Protocols PROFINET Supports protocol for PROFINET IO IRT PROFIBUS	1; RS 422 / 485 combined 0; together with RS 485 0 2; USB 2.0 1; 5-pole 0 0 0 2 No Yes Yes Yes Yes; As of WinCC V12 Yes
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Number of RS 485 interfaces Number of RS 422 interfaces Number of RS 232 interfaces Number of USB interfaces USB Mini B Number of 20 mA interfaces (TTY) Number of parallel interfaces Number of other interfaces Number of SD card slots With software interfaces Industrial Ethernet Industrial Ethernet status LED Number of ports of the integrated switch Protocols PROFINET Supports protocol for PROFINET IO IRT PROFIBUS EtherNet/IP MPI Protocols (Ethernet) TCP/IP DHCP SNMP DCP LLDP WEB characteristics	1; RS 422 / 485 combined 0; together with RS 485 0 2; USB 2.0 1; 5-pole 0 0 0 2 No Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
Number of RS 485 interfaces Number of RS 422 interfaces Number of RS 232 interfaces Number of USB interfaces USB Mini B Number of 20 mA interfaces (TTY) Number of parallel interfaces Number of other interfaces Number of SD card slots With software interfaces Industrial Ethernet Industrial Ethernet status LED Number of ports of the integrated switch Protocols PROFINET Supports protocol for PROFINET IO IRT PROFIBUS EtherNet/IP MPI Protocols (Ethernet) TCP/IP DHCP SNMP DCP LLDP WEB characteristics HTTP	1; RS 422 / 485 combined 0; together with RS 485 0 2; USB 2.0 1; 5-pole 0 0 0 2 No Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
Number of RS 485 interfaces Number of RS 422 interfaces Number of RS 232 interfaces Number of USB interfaces USB Mini B Number of 20 mA interfaces (TTY) Number of parallel interfaces Number of other interfaces Number of SD card slots With software interfaces Industrial Ethernet Industrial Ethernet status LED Number of ports of the integrated switch Protocols PROFINET Supports protocol for PROFINET IO IRT PROFIBUS EtherNet/IP MPI Protocols (Ethernet) TCP/IP DHCP SNMP DCP LLDP WEB characteristics	1; RS 422 / 485 combined 0; together with RS 485 0 2; USB 2.0 1; 5-pole 0 0 0 2 No Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye

• XML	Yes
• 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
EMC	
Emission of radio interference acc. to EN 55 011	
Limit class A, for use in industrial areas	Yes
Limit class X, for use in residential areas	No
Degree and class of protection	NO
	IDOOL
IP (at the front)	IP66K
IP (rear)	IP20
NEMA (front)	NI-
Enclosure Type 4 at the front	No
Enclosure Type 4x at the front	Yes; indoor use only
Standards, approvals, certificates	
CE mark	Yes
cULus	Yes
FM approval	Yes
RCM (formerly C-TICK)	Yes
KC approval	Yes
EAC (formerly Gost-R)	Yes
Use in hazardous areas	
ATEX Zone 2	Yes
ATEX Zone 22	Yes
• IECEx Zone 2	Yes
• IECEx Zone 22	Yes
• cULus Class I Zone 1	No
 cULus Class I Zone 2, Division 2 	Yes
FM Class I Division 2	Yes
Marine approval	
Germanischer Lloyd (GL)	No
American Bureau of Shipping (ABS)	No
Bureau Veritas (BV)	No
Det Norske Veritas (DNV)	No
Korean Register of Shipping (KRS)	No
Lloyds Register of Shipping (LRS)	No
Nippon Kaiji Kyokai (Class NK)	No
Polski Rejestr Statkow (PRS)	No
Ambient conditions	
Ambient temperature during operation	
Operation (vertical installation)	0.00
— For vertical installation, min.	0 °C
— For vertical installation, max.	50 °C
Operation (max. tilt angle)	0.00
— At maximum tilt angle, min.	0 °C
— At maximum tilt angle, max.	40 °C
Operation (vertical installation, portrait format)	0.00
— For vertical installation, min.	0 °C
— For vertical installation, max.	40 °C
Operation (max. tilt angle, portrait format)	
At maximum tilt angle, min.	0 °C
 At maximum tilt angle, max. 	35 °C

Ambient temperature during storage/transportation	
• min.	-20 °C
• max.	60 °C
Relative humidity	
Operation, max.	80 %; no condensation
Operating systems	
proprietary	No
pre-installed operating system	
 Windows CE 	Yes
configuration / header	
Message indicator	Yes
Alarm system (incl. buffer and acknowledgment)	Yes
Process value display (output)	Yes
Process value default (input) possible	Yes
Recipe management	Yes
Configuration software	
 STEP 7 Basic (TIA Portal) 	No
 STEP 7 Professional (TIA Portal) 	No
 WinCC flexible Compact 	No
 WinCC flexible Standard 	No
 WinCC flexible Advanced 	No
 WinCC Basic (TIA Portal) 	No
 WinCC Comfort (TIA Portal) 	Yes; from V11
 WinCC Advanced (TIA Portal) 	Yes; from V11
 WinCC Professional (TIA Portal) 	Yes; from V11
Languages	
Online languages	
 Number of online/runtime languages 	32
Project languages	
 Languages per project 	32
Functionality under WinCC (TIA Portal)	
Libraries	Yes
Applications/options	
Web browser	Yes
 Pocket Word 	Yes
 Pocket Excel 	Yes
PDF Viewer	Yes
Media Player	Yes
 SIMATIC WinCC Sm@rtServer 	Yes
SIMATIC WinCC Audit	Yes
Number of Visual Basic Scripts	Yes
Task planner	
• time-controlled	Yes
task-controlled	Yes
Message system	
 Number of alarm classes 	32
Bit messages	
— Number of bit messages	4 000
Analog messages	
— Number of analog messages	200
S7 alarm number procedure	Yes
System messages HMI (SNATIO OF SNAMED)	Yes
System event, more (SIMATIC S7, SINUMERIK, SIMOTION,)	Yes
Number of characters per message	80
Number of process values per message	8
A also assile alessa and assassina	Yes
Acknowledgment groups	
Message indicator	Yes

• Data records per recipe	500
Data records per recipe Entries per data record	1 000
Entries per data record Size of integral region moment	
Size of internal recipe memoryRecipe memory expandable	2 Mbyte Yes
Variables	165
Number of variables per device	2 048
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
Graphic I/O fields (graphics list)	Yes
Symbolic I/O fields (text list) Data thing fields	Yes
Date/time fields Switches	Yes
Switches Rutters	Yes
Buttons Craphia diaplay	Yes
Graphic display	Yes
Coometrie phicate	Yes
Geometric objects Complex image objects	Yes
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	Yes
 Sliders 	Yes
 Pointer instruments 	Yes
Analog/digital clock	Yes
Lists	
 Number of text lists per project 	500
 Number of entries per text list 	500
 Number of graphics lists per project 	500
Number of entries per graphics list	500
Archiving	
Number of archives per device	50
Number of entries per archive	20 000
Message archive	Yes
Process value archive And his in a part to de-	Yes
Archiving methods	

- Sequence and criver - Short-term archive	Conventiel archive	Voc
Memory location	— Sequential archive	Yes
Memory card		Yes
— USB memory — Febrenet Yes	-	v
— Ethernet		
- Data storage format	•	
CSV		Yes
- TXT		V
ROB		
Security		
Number of user groups 50		Yes
Number of users 50	•	
Number of users 50 Password export/import Yes SIMATIC Logon Yes Seport (shift log) Yes Lectronic print to file Yes; PDF, HTML Yes Electronic print to file Yes; PDF, HTML Yes Simulation Yes Seport (shift log)		
Password export/import SIMATIC Logon SIMATIC Logon Yes SIMATIC Logon Pressure of the provided printer Alarms Report (shift log) Hardcopy Electronic print to file Yes; PDF, HTML Pressure of the pressure of		
SIMATIC Logon		
Logging through printer		
		Yes
Report (shift log)		
Electronic print to file		
New Yes		
		Yes; PDF, HTML
Transfer (upload/download) • MP/PROFIBUS DP • USB • Ethernet • using external storage medium • S7-1200 • S7-1200 • S7-1200 • S7-200 • S7-300/400 • LOGO! • WinAC • SINUMERIK • SINUMERIK • SINOTION • Allen Bradley (EtherNet/IP) • Allen Bradley (DF1) • Mitsubishi (MC TCP/IP) • Modicon (Modbus TCP/IP) • Modicon (Modbus TCP/IP) • Modicon (Modbus TCP/IP) • Modicon (Modbus) • Backup/Restore manually • Backup/Restore automatically • Service tools/configuration aids • Backup/Restore manually • Device switchover Peripherals/Options Printer Yes SIMATIC HMI SD memory card: Secure Digital memory card SIMATIC HMI SD memory card: Secure Digital memory card SIMATIC HMI SD memory card: Scure Digital memory card SIMATIC HMI SD memory card: Scure Digital memory card SIMATIC HMI SD memory card: Scure Digital memory card SIMATIC HMI SD memory card: Scure Digital memory card SIMATIC HMI SD memory card: Scure Digital memory card SIMATIC HMI SD memory card: Scure Digital memory card SIMATIC HMI CF memory card: Scure Digital memory card SIMATIC HMI SD memory card: Scure Digital memory card SIMATIC HMI SD memory card: Scure Digital memory card SIMATIC HMI SD memory card Compact Flash Card		
Transfer (upload/download) MPUPROFIBUS DP		
		Yes
● Ethernet		
Ethernet Sing external storage medium Process coupling S7-1200 S7-1200 S7-1500 S7-1500 Yes S7-200 Yes S7-3001400 Yes LOGOI WinAC SINUMERIK SINUMERI SINUMERIK		
• using external storage medium Process coupling • S7-1200 • S7-1500 • S7-1500 • S7-200 • S7-300/400 • LOGO! • WinAC • SINUMERIK • SINUMERIK • SINUMERIK • SIMOTION • Allen Bradley (EherNet/IP) • Allen Bradley (DF1) • Mitsubishi (MC TCP/IP) • Mitsubishi (MC TCP/IP) • Mitsubishi (MC TCP/IP) • Momon (LiNik/Multilink) • OMRON (LINik/Multilink) • OMRON (Elns TCP) • Modicon (Modbus TCP/IP) • Modicon (Modbus TCP/IP) • Modicon (Modbus) • OPC UA Client • OPC UA Server Service tools/configuration aids • Backup/Restore automatically • Backup/Restore automatically • Simulation • Device switchover Peripherals/Options Printer SIMATIC HMI SD memory card: Secure Digital memory card SIMATIC HMI SD memory card Compact Flash Card		
Process coupling		
		Yes
	· -	
• S7-300/400 • LOGO! • WinAC • WinAC • SINUMERIK • SINOTION • Allen Bradley (EtherNet/IP) • Allen Bradley (EtherNet/IP) • Mitsubishi (MC TCP/IP) • Mitsubishi (FX) • OMRON (FINS TCP) • Modicon (Modbus TCP/IP) • Modicon (Modbus TCP/IP) • Modicon (Modbus) • OPC UA Client • OPC UA Server Service tools/configuration aids • Backup/Restore automatically • Simulation • Device switchover Peripherals/Options Printer SIMATIC HMI SD memory card: Secure Digital memory card SIMATIC HMI SD memory card Compact Flash Card No		
UGO! WinAC WinAC SINUMERIK Yes; with SINUMERIK option package SIMOTION Allen Bradley (EtherNet/IP) Allen Bradley (DF1) Yes Mitsubishi (MC TCP/IP) Mitsubishi (MC TCP/IP) Mitsubishi (FX) OMRON (FINS TCP) Modicon (Modbus TCP/IP) Modicon (Modbus TCP/IP) Modicon (Modbus TCP/IP) Modicon (Modbus) Yes OPC UA Client OPC UA Server Service tools/configuration aids Backup/Restore automatically Backup/Restore automatically Simulation Device switchover Printer SIMATIC HMI MM memory card: Multi Media Card SIMATIC HMI SD memory card Compact Flash Card No Yes Yes Yes Yes Yes Yes; Up to 128 MB SIMATIC HMI SD memory card: Secure Digital memory card SIMATIC HMI CF memory card Compact Flash Card No		
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OMRON (FINS TCP) OMRON (LINK/Multilink) Yes Modicon (Modbus TCP/IP) Modicon (Modbus) Yes OPC UA Client Yes OPC UA Server Yes Service tools/configuration aids Backup/Restore manually Backup/Restore automatically Simulation Device switchover Yes Peripherals/Options Printer SIMATIC HMI SD memory card: Multi Media Card SIMATIC HMI SD memory card Compact Flash Card No	Mitsubishi (MC TCP/IP)	Yes
OMRON (LINK/Multilink) Modicon (Modbus TCP/IP) Modicon (Modbus) OPC UA Client OPC UA Server Yes Service tools/configuration aids Backup/Restore manually Backup/Restore automatically Simulation Device switchover Peripherals/Options Printer SIMATIC HMI MM memory card: Multi Media Card SIMATIC HMI SD memory card Compact Flash Card No Yes Yes Yes Yes Yes Yes Yes Ye		
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OPC UA Client OPC UA Server Yes Service tools/configuration aids Backup/Restore manually Backup/Restore automatically Simulation Device switchover Yes Peripherals/Options Printer Yes SIMATIC HMI MM memory card: Multi Media Card SIMATIC HMI SD memory card: Secure Digital memory card SIMATIC HMI CF memory card Compact Flash Card No		Yes
OPC UA Server Service tools/configuration aids ● Backup/Restore manually ● Backup/Restore automatically ● Simulation ● Device switchover Peripherals/Options Printer SIMATIC HMI MM memory card: Multi Media Card SIMATIC HMI SD memory card: Secure Digital memory card SIMATIC HMI CF memory card Compact Flash Card No	Modicon (Modbus)	Yes
Service tools/configuration aids Backup/Restore manually Backup/Restore automatically Simulation Device switchover Peripherals/Options Printer Yes SIMATIC HMI MM memory card: Multi Media Card SIMATIC HMI SD memory card: Secure Digital memory card SIMATIC HMI CF memory card Compact Flash Card No		Yes
Backup/Restore manually Backup/Restore automatically Simulation Device switchover 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 SIMATIC HMI CF memory card Compact Flash Card No		Yes
Backup/Restore automatically Simulation Peripherals/Options Printer SIMATIC HMI MM memory card: Multi Media Card SIMATIC HMI SD memory card: Secure Digital memory card SIMATIC HMI CF memory card Compact Flash Card No No	-	
● Simulation Peripherals/Options Printer Yes SIMATIC HMI MM memory card: Multi Media Card SIMATIC HMI SD memory card: Secure Digital memory card SIMATIC HMI CF memory card Compact Flash Card No		
● Device switchover Peripherals/Options Printer Yes SIMATIC HMI MM memory card: Multi Media Card SIMATIC HMI SD memory card: Secure Digital memory card SIMATIC HMI CF memory card Compact Flash Card No		
Printer Yes SIMATIC HMI MM memory card: Multi Media Card Yes; Up to 128 MB SIMATIC HMI SD memory card: Secure Digital memory card SIMATIC HMI CF memory card Compact Flash Card No		
Printer SIMATIC HMI MM memory card: Multi Media Card SIMATIC HMI SD memory card: Secure Digital memory card SIMATIC HMI CF memory card Compact Flash Card Yes; Up to 128 MB Yes; Up to 2 GB No		Yes
SIMATIC HMI MM memory card: Multi Media Card SIMATIC HMI SD memory card: Secure Digital memory card SIMATIC HMI CF memory card Compact Flash Card No	Peripherals/Options	
SIMATIC HMI SD memory card: Secure Digital memory card SIMATIC HMI CF memory card Compact Flash Card No		Yes
Card SIMATIC HMI CF memory card Compact Flash Card No		
	card	Yes; Up to 2 GB
USB memory Yes		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 	No
 Stainless steel 	Yes
Dimensions	
Width of the housing front	330 mm
Height of housing front	241 mm
Mounting cutout, width	310 mm
Mounting cutout, height	221 mm
Overall depth	67 mm
Weights	
Weight (without packaging)	3.6 kg
Weight (with packaging)	4.2 kg

3/2/2021

last modified: