## SIEMENS

## Data sheet

## 6AV2124-0UC24-0BX0

SIMATIC HMI TP1900 Comfort Pro for support arm (expandable, round pipe) and extension unit, Comfort Panel, touch operation, 19" widescreen TFT display, 16 million colors, PROFINET interface, MPI/PROFIBUS DP interface, 24 MB configuration memory, WEC 2013, configurable from WinCC Comfort V14 SP1 with HSP



General information		
Product type designation	TP1900 Comfort PRO	
Display		
Design of display	TFT	
Screen diagonal	18.5 in	
Display width	409.8 mm	
Display height	230.4 mm	
Number of colors	16 777 216	
Resolution (pixels)		
<ul> <li>Horizontal image resolution</li> </ul>	1 366 pixel	
Vertical image resolution	768 pixel	
Backlighting		
<ul> <li>MTBF backlighting (at 25 °C)</li> </ul>	50 000 h	
Backlight dimmable	Yes; 0-100 %	
Control elements		
Keyboard fonts		
<ul> <li>Function keys</li> </ul>		
<ul> <li>— Number of function keys</li> </ul>	0	
<ul> <li>— Number of function keys with LEDs</li> </ul>	0	
<ul> <li>Keys with LED</li> </ul>	No	
System keys	No	
<ul> <li>Numeric keyboard</li> </ul>	Yes; Onscreen keyboard	
alphanumeric keyboard	Yes; Onscreen keyboard	
Touch operation		
Design as touch screen	Yes; Projective-capacitive	
Expansions for operator control of the process		
<ul> <li>Direct keys (touch buttons as S7 input I/O)</li> </ul>	40	
Installation type/mounting		
Mounting	Support arm	
Mounting position	vertical	
Mounting in portrait format possible	No	
maximum permissible angle of inclination without external ventilation	35°	
Supply voltage		
Type of supply voltage	DC	
Rated value (DC)	24 V	
permissible range, lower limit (DC)	19.2 V	
permissible range, upper limit (DC)	28.8 V	
Input current		

Current consumption (roted value)	1.5 A
Current consumption (rated value) Starting current inrush I <sup>2</sup> t	1.5 A 0.5 A <sup>2</sup> ·s
-	0.5 A-S
Power	- 00 W
Active power input, typ.	36 W
Processor	
Processor type	X86
Memory	
Flash	Yes
RAM	Yes
Memory available for user data	24 Mbyte
Type of output	
Info LED	No
Power LED	No
Error LED	No
Acoustics	
• Buzzer	No
• Speaker	Yes
Time of day	
Clock	
<ul> <li>Hardware clock (real-time)</li> </ul>	Yes
Software clock	Yes
retentive	Yes; Back-up duration typically 6 weeks
synchronizable	Yes
Interfaces	
Number of industrial Ethernet interfaces	2; 2 ports (switch) + independent port
Number of RS 485 interfaces	1; RS 422 / 485 combined
Number of RS 422 interfaces	0; together with RS 485
Number of RS 232 interfaces	0
Number of USB interfaces	2; USB 2.0
Number of 20 mA interfaces (TTY)	0
Number of parallel interfaces	0
Number of other interfaces	0
Number of SD card slots	2
With software interfaces	No
Industrial Ethernet	
Industrial Ethernet status LED	3
<ul> <li>Number of ports of the integrated switch</li> </ul>	2
Protocols	
PROFINET	Yes
Supports protocol for PROFINET IO	Yes
IRT	Yes
PROFIBUS	Yes
EtherNet/IP	Yes
MPI	Yes
Protocols (Ethernet)	
• TCP/IP	Yes
• DHCP	Yes
• SNMP	Yes
• DCP	Yes
• LLDP	Yes
WEB characteristics	
• HTTP	Yes
• HTTPS	Yes
• HTML	Yes
• XML	Yes
• CSS	Yes
Active X	Yes
JavaScript	Yes
• Java VM	No

Redundancy mode		
Redundancy mode		
Media redundancy — MRP	Yes	
Further protocols		
• CAN	No	
• MODBUS	Yes	
Interrupts/diagnostics/status information		
Diagnoses	Vac: S7 controller	
Diagnostic information readable  EMC	Yes; S7 controller	
Emission of radio interference acc. to EN 55 011	Vee	
Limit class A, for use in industrial areas	Yes	
Limit class B, for use in residential areas	No	
Degree and class of protection	IDOC	
IP (at the front)	IP65	
	IP65	
NEMA (front)	Vec	
Enclosure Type 4 at the front	Yes	
Enclosure Type 4x at the front	Yes	
Standards, approvals, certificates	Vee	
CE mark	Yes	
CULus	Yes	
RCM (formerly C-TICK)	Yes	
KC approval	No; Available soon	
EAC (formerly Gost-R)	No; Available soon	
Ambient conditions		
Suited for indoor use	Yes	
Suited for outdoor use	No	
Ambient temperature during operation		
Operation (vertical installation)		
— For vertical installation, min.	0 °C	
— For vertical installation, max.	45 °C	
Operation (max. tilt angle)	0.10	
— At maximum tilt angle, min.	0 °C	
— At maximum tilt angle, max.	40 °C	
Ambient temperature during storage/transportation	-20 °C	
• min.	-20°C	
max.	60 C	
Relative humidity     Operation, max.	90 %; no condensation	
Operating systems	Al-	
proprietary	No	
pre-installed operating system • Windows CE	Vac: Windows Embedded Compact 2012	
	Yes; Windows Embedded Compact 2013	
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	No	
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; V14 SP1 HSP and higher	
<ul> <li>WinCC Advanced (TIA Portal)</li> </ul>	Yes; V14 SP1 HSP and higher	

WinCC Professional (TIA Portal)	Yes; V14 SP1 HSP and higher
Languages	
Online languages	
Number of online/runtime languages	32
Project languages	
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	
<ul> <li>— Number of bit messages</li> </ul>	6 000
<ul> <li>Analog messages</li> </ul>	
<ul> <li>— Number of analog messages</li> </ul>	200
<ul> <li>S7 alarm number procedure</li> </ul>	Yes
<ul> <li>System messages HMI</li> </ul>	Yes
• System event, more (SIMATIC S7, SINUMERIK, SIMOTION, )	Yes
<ul> <li>Number of characters per message</li> </ul>	80
<ul> <li>Number of process values per message</li> </ul>	8
<ul> <li>Acknowledgment groups</li> </ul>	Yes
Message indicator	Yes
Recipe management	
<ul> <li>Number of recipes</li> </ul>	500
<ul> <li>Data records per recipe</li> </ul>	1 000
<ul> <li>Entries per data record</li> </ul>	2 000
Size of internal recipe memory	4 Mbyte
Recipe memory expandable	Yes
Variables	
Number of variables per device	4 096
Number of variables per screen	400
• Limit values	Yes
Multiplexing	Yes
Structures	Yes
• Arrays	Yes
Images	750
<ul> <li>Number of configurable images</li> <li>Permanent window/default</li> </ul>	750 Yes
Global image	Yes
Global Image     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	600
Text fields	Yes
<ul> <li>I/O fields</li> </ul>	Yes
Graphic I/O fields (graphics list)	Yes

- Questalia I/Q fields (text list)	Vaa
Symbolic I/O fields (text list)	Yes
Date/time fields	Yes
• Switches	Yes
Buttons	Yes
Graphic display	Yes
• Icons	Yes
Geometric objects	Yes
Complex image objects	
Number of complex objects per screen	40
Alarm view	Yes
Trend view	Yes
User view	Yes
Status/control	Yes
<ul> <li>Sm@rtClient view</li> </ul>	Yes
Recipe view	Yes
<ul> <li>f(x) trend view</li> </ul>	Yes
<ul> <li>System diagnostics view</li> </ul>	Yes
Media Player	Yes
HTML browser	Yes
<ul> <li>PDF display</li> </ul>	Yes
<ul> <li>IP camera display</li> </ul>	Yes
<ul> <li>Bar graphs</li> </ul>	Yes
Sliders	Yes
<ul> <li>Pointer instruments</li> </ul>	Yes
Analog/digital clock	Yes
Lists	
<ul> <li>Number of text lists per project</li> </ul>	500
<ul> <li>Number of entries per text list</li> </ul>	500
<ul> <li>Number of graphics lists per project</li> </ul>	500
<ul> <li>Number of entries per graphics list</li> </ul>	500
Archiving	
Archiving     Number of archives per device	50
	50 50 000
Number of archives per device	
<ul><li>Number of archives per device</li><li>Number of entries per archive</li></ul>	50 000
<ul> <li>Number of archives per device</li> <li>Number of entries per archive</li> <li>Message archive</li> </ul>	50 000 Yes
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<b>— — — — — — — — — —</b>	
Transfer (upload/download)	
MPI/PROFIBUS DP	Yes
• USB	Yes
• Ethernet	Yes
using external storage medium	Yes
Process coupling	
• S7-1200	Yes
• S7-1500	Yes
• S7-200	Yes
• S7-300/400	Yes
• LOGO!	Yes
WinAC	Yes
SINUMERIK	Yes; With SINUMERIK option package as from WinCC V15 or higher
SIMOTION	Yes
<ul> <li>Allen Bradley (EtherNet/IP)</li> </ul>	Yes
Allen Bradley (DF1)	Yes
Mitsubishi (MC TCP/IP)	Yes
• Mitsubishi (FX)	Yes
• OMRON (FINS TCP)	No
• OMRON (LINK/Multilink)	Yes
Modicon (Modbus TCP/IP)	Yes
Modicon (Modbus)	Yes
OPC UA Client	Yes
OPC UA Server	Yes
Service tools/configuration aids	
Backup/Restore manually	Yes
Backup/Restore automatically	Yes
Simulation	Yes
Device switchover	Yes
	165
Peripherals/Options	N
Printer	Yes
SIMATIC HMI MM memory card: Multi Media Card	Yes; Up to 128 MB
SIMATIC HMI SD memory card: Secure Digital memory card	Yes; Up to 2 GB
SIMATIC HMI CF memory card Compact Flash Card	No
USB memory	Yes
SIMATIC IPC USB Flashdrive (USB stick)	Yes; Up to 16 GB
SIMATIC HMI USB stick	Yes; Up to 8 GB
Network camera	Yes
Mechanics/material	
Enclosure material (front)	
Plastic	No
Aluminum	Yes
Stainless steel	No
Dimensions	
Width of the housing front	462 mm
Height of housing front	296 mm; Without basic adapter
Overall depth	101 mm; Without basic adapter
·	
Weights	7.4
Weight (without packaging)	7.4 kg
last modified:	3/2/2021 🖸