## SIEMENS

## Data sheet

## 6AV2124-0UC24-0AB0



SIMATIC HMI TP1900 Comfort Pro, support arm, neutral front, 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
<ul> <li>Vertical image resolution</li> </ul>	768 pixel
Backlighting	
<ul> <li>MTBF backlighting (at 25 °C)</li> </ul>	50 000 h
Backlight dimmable	Yes; 0-100 %
Control elements	
Keyboard fonts	
Keys with LED	No
System keys	No
Numeric keyboard	Yes; Onscreen keyboard
<ul> <li>alphanumeric keyboard</li> </ul>	Yes; Onscreen keyboard
Touch operation	
<ul> <li>Design as touch screen</li> </ul>	Yes; 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 (rated value)	1.5 A
Starting current inrush I <sup>2</sup> t	0.5 A²·s
Power	
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	2+ mbyte
Info LED	No
	No
Power LED	No
Error LED	NO
Acoustics	Na
• Buzzer	No
• Speaker	Yes
Time of day	
Clock	
Hardware clock (real-time)	Yes
Software clock	Yes
retentive	Yes; Back-up duration typically 6 weeks
synchronizable	Yes
Interfaces	
Number of industrial Ethernet interfaces	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	
<ul> <li>Industrial Ethernet status LED</li> </ul>	3
<ul><li>Industrial Ethernet status LED</li><li>Number of ports of the integrated switch</li></ul>	3 2
Number of ports of the integrated switch	
Number of ports of the integrated switch Protocols	2
Number of ports of the integrated switch Protocols PROFINET	2 Yes
Number of ports of the integrated switch  Protocols  PROFINET  Supports protocol for PROFINET IO	2 Yes Yes
Number of ports of the integrated switch      Protocols      PROFINET      Supports protocol for PROFINET IO      IRT	2 Yes Yes Yes
Number of ports of the integrated switch  Protocols  PROFINET  Supports protocol for PROFINET IO  IRT  PROFIBUS	2 Yes Yes Yes Yes
Number of ports of the integrated switch  Protocols  PROFINET  Supports protocol for PROFINET IO  IRT  PROFIBUS EtherNet/IP	2 Yes Yes Yes Yes Yes
Number of ports of the integrated switch      Protocols      PROFINET      Supports protocol for PROFINET IO      IRT      PROFIBUS      EtherNet/IP      MPI	2 Yes Yes Yes Yes Yes
Number of ports of the integrated switch      Protocols      PROFINET      Supports protocol for PROFINET IO      IRT      PROFIBUS      EtherNet/IP      MPI      Protocols (Ethernet)	2 Yes Yes Yes Yes Yes Yes
Number of ports of the integrated switch      Protocols      PROFINET      Supports protocol for PROFINET IO      IRT      PROFIBUS      EtherNet/IP      MPI      Protocols (Ethernet)      • TCP/IP	2 Yes Yes Yes Yes Yes Yes
Number of ports of the integrated switch  Protocols  PROFINET  Supports protocol for PROFINET IO  IRT  PROFIBUS  EtherNet/IP  MPI  Protocols (Ethernet)      TCP/IP      DHCP	2 Yes Yes Yes Yes Yes Yes Yes
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	2 Yes Yes Yes Yes Yes Yes Yes Yes
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	2 Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes
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	2 Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes
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	2 Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes
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	2 Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes
<ul> <li>Number of ports of the integrated switch</li> <li>Protocols</li> <li>PROFINET</li> <li>Supports protocol for PROFINET IO</li> <li>IRT</li> <li>PROFIBUS</li> <li>EtherNet/IP</li> <li>MPI</li> <li>Protocols (Ethernet)</li> <li>TCP/IP</li> <li>DHCP</li> <li>SNMP</li> <li>DCP</li> <li>LLDP</li> <li>WEB characteristics</li> <li>HTTP</li> <li>HTTPS</li> <li>HTML</li> </ul>	2 Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes
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<ul> <li>Number of ports of the integrated switch</li> <li>Protocols</li> <li>PROFINET</li> <li>Supports protocol for PROFINET IO</li> <li>IRT</li> <li>PROFIBUS</li> <li>EtherNet/IP</li> <li>MPI</li> <li>Protocols (Ethernet)</li> <li>TCP/IP</li> <li>DHCP</li> <li>SNMP</li> <li>DCP</li> <li>LLDP</li> <li>WEB characteristics</li> <li>HTTP</li> <li>HTTPS</li> <li>HTML</li> <li>XML</li> <li>CSS</li> <li>Active X</li> <li>JavaScript</li> <li>Java VM</li> <li>Redundancy mode</li> <li>Media redundancy</li> </ul>	2 Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes
<ul> <li>Number of ports of the integrated switch</li> <li>Protocols</li> <li>PROFINET</li> <li>Supports protocol for PROFINET IO</li> <li>IRT</li> <li>PROFIBUS</li> <li>EtherNet/IP</li> <li>MPI</li> <li>Protocols (Ethernet)</li> <li>TCP/IP</li> <li>DHCP</li> <li>SNMP</li> <li>DCP</li> <li>LLDP</li> <li>WEB characteristics</li> <li>HTTP</li> <li>HTTPS</li> <li>HTML</li> <li>XML</li> <li>CSS</li> <li>Active X</li> <li>JavaScript</li> <li>Java VM</li> <li>Redundancy mode</li> <li>Media redundancy</li> <li>— MRP</li> </ul>	2 Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes
<ul> <li>Number of ports of the integrated switch</li> <li>Protocols</li> <li>PROFINET</li> <li>Supports protocol for PROFINET IO</li> <li>IRT</li> <li>PROFIBUS</li> <li>EtherNet/IP</li> <li>MPI</li> <li>Protocols (Ethernet)</li> <li>TCP/IP</li> <li>DHCP</li> <li>SNMP</li> <li>DCP</li> <li>LLDP</li> <li>WEB characteristics</li> <li>HTTP</li> <li>HTTPS</li> <li>HTML</li> <li>XML</li> <li>CSS</li> <li>Active X</li> <li>JavaScript</li> <li>Java VM</li> <li>Redundancy mode</li> <li>Media redundancy</li> </ul>	2 Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes

• MODBUS	Yes
Interrupts/diagnostics/status information	
Diagnoses	
Diagnostic information readable	Yes; S7 controller
EMC	
Emission of radio interference acc. to EN 55 011	Yes
<ul> <li>Limit class A, for use in industrial areas</li> <li>Limit class B, for use in residential areas</li> </ul>	No
Degree and class of protection	NU
IP (at the front)	IP65
IP (rear)	IP65
NEMA (front)	
Enclosure Type 4 at the front	Yes
Enclosure Type 4x at the front	Yes
Standards, approvals, certificates	
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)	
— At maximum tilt angle, min.	0 °C
— At maximum tilt angle, max.	40 °C
Ambient temperature during storage/transportation	
• min.	-20 °C
• max.	60 °C
Relative humidity	
Operation, max.	90 %; no condensation
Operating systems	
proprietary	No
pre-installed operating system	
Windows CE	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	
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
WinCC Advanced (TIA Portal)	Yes; V14 SP1 HSP and higher
WinCC Professional (TIA Portal)	Yes; V14 SP1 HSP and higher
Languages	
Online languages	
<ul> <li>Number of online/runtime languages</li> </ul>	32
Project languages	
<ul> <li>Languages per project</li> </ul>	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	6 000
Analog messages	
— Number of analog messages	200
S7 alarm number procedure	Yes
System messages HMI	Yes
• System event, more (SIMATIC S7, SINUMERIK, SIMOTION, )	Yes
Number of characters per message	80
<ul> <li>Number of process values per message</li> </ul>	8
<ul> <li>Acknowledgment groups</li> </ul>	Yes
Message indicator	Yes
Recipe management	
Number of recipes	500
<ul> <li>Data records per recipe</li> </ul>	1 000
<ul> <li>Entries per data record</li> </ul>	2 000
<ul> <li>Size of internal recipe memory</li> </ul>	4 Mbyte
<ul> <li>Recipe memory expandable</li> </ul>	Yes
Variables	
<ul> <li>Number of variables per device</li> </ul>	4 096
<ul> <li>Number of variables per screen</li> </ul>	400
Limit values	Yes
Multiplexing	Yes
Structures	Yes
• Arrays	Yes
Images	
Number of configurable images	750
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	600
Number of objects per image     Tout fields	600 Xaa
Text fields	Yes
I/O fields     Craphic I/O fields (graphics list)	Yes
Graphic I/O fields (graphics list)     Symbolic I/O fields (toyt list)	Yes
Symbolic I/O fields (text list)	Yes
Date/time fields     Switches	Yes
Switches	Yes
Buttons     Craphic diaplay	Yes
Graphic display	Yes
Icons     Compatrie chieste	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
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	50 000
Message archive	Yes
Process value archive	Yes
Archiving methods	
— Sequential archive	Yes
— Short-term archive	Yes
Memory location	
— Memory card	Yes
— USB memory	Yes
— Ethernet	Yes
<ul> <li>Data storage format</li> </ul>	
- CSV	Yes
— TXT	Yes
— RDB	Yes
Security	
Number of user groups	50
Number of user rights	32
Number of users	50
<ul> <li>Password export/import</li> </ul>	Yes
SIMATIC Logon	Yes
Logging through printer	
• Alarms	Yes
Report (shift log)	Yes
Hardcopy	Yes
Electronic print to file	Yes; PDF, HTML
Character sets	
Keyboard fonts	
— US English	Yes
Transfer (upload/download)	
MPI/PROFIBUS DP	Yes
• USB	Yes
• Ethernet	Yes
<ul> <li>using external storage medium</li> </ul>	Yes
Process coupling	
• S7-1200	Yes
• S7-1500	Yes

• S7-200	Yes
• S7-300/400	Yes
• LOGO!	Yes
WinAC	Yes
• SINUMERIK	Yes; With SINUMERIK option package 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
<ul> <li>Mitsubishi (FX)</li> </ul>	Yes
OMRON (FINS TCP)	No
OMRON (LINK/Multilink)	Yes
Modicon (Modbus TCP/IP)	Yes
<ul> <li>Modicon (Modbus)</li> </ul>	Yes
OPC UA Client	Yes
OPC UA Server	Yes
Service tools/configuration aids	
Backup/Restore manually	Yes
<ul> <li>Backup/Restore automatically</li> </ul>	Yes
<ul> <li>Simulation</li> </ul>	Yes
Device switchover	Yes
	Yes
Device switchover	Yes Yes
Device switchover Peripherals/Options	
Device switchover Peripherals/Options Printer	Yes
Device switchover      Peripherals/Options      Printer      SIMATIC HMI MM memory card: Multi Media Card	Yes Yes; Up to 128 MB
Device switchover      Peripherals/Options      Printer      SIMATIC HMI MM memory card: Multi Media Card      SIMATIC HMI SD memory card: Secure Digital memory card	Yes Yes; Up to 128 MB Yes; Up to 2 GB
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	Yes Yes; Up to 128 MB Yes; Up to 2 GB No
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      USB memory	Yes Yes; Up to 128 MB Yes; Up to 2 GB No Yes
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      USB memory      SIMATIC IPC USB Flashdrive (USB stick)	Yes Yes; Up to 128 MB Yes; Up to 2 GB No Yes Yes; Up to 16 GB
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      USB memory      SIMATIC IPC USB Flashdrive (USB stick)      SIMATIC HMI USB stick	Yes Yes; Up to 128 MB Yes; Up to 2 GB No Yes Yes; Up to 16 GB Yes; Up to 8 GB
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      USB memory      SIMATIC IPC USB Flashdrive (USB stick)      SIMATIC HMI USB stick      Network camera	Yes Yes; Up to 128 MB Yes; Up to 2 GB No Yes Yes; Up to 16 GB Yes; Up to 8 GB
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      USB memory      SIMATIC IPC USB Flashdrive (USB stick)      SIMATIC HMI USB stick      Network camera      Mechanics/material	Yes Yes; Up to 128 MB Yes; Up to 2 GB No Yes Yes; Up to 16 GB Yes; Up to 8 GB
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      USB memory      SIMATIC IPC USB Flashdrive (USB stick)      SIMATIC HMI USB stick      Network camera      Mechanics/material      Enclosure material (front)	Yes Yes; Up to 128 MB Yes; Up to 2 GB No Yes Yes; Up to 16 GB Yes; Up to 8 GB Yes
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      USB memory      SIMATIC IPC USB Flashdrive (USB stick)      SIMATIC HMI USB stick      Network camera      Mechanics/material      Enclosure material (front)      • Plastic	Yes Yes; Up to 128 MB Yes; Up to 2 GB No Yes Yes; Up to 16 GB Yes; Up to 8 GB Yes
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      USB memory      SIMATIC IPC USB Flashdrive (USB stick)      SIMATIC HMI USB stick      Network camera      Mechanics/material      Enclosure material (front)          Plastic          Aluminum	Yes Yes; Up to 128 MB Yes; Up to 2 GB No Yes Yes; Up to 16 GB Yes; Up to 8 GB Yes
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      USB memory      SIMATIC IPC USB Flashdrive (USB stick)      SIMATIC HMI USB stick      Network camera      Mechanics/material      Enclosure material (front)          Plastic          Aluminum          Stainless steel	Yes Yes; Up to 128 MB Yes; Up to 2 GB No Yes Yes; Up to 16 GB Yes; Up to 8 GB Yes
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      USB memory      SIMATIC IPC USB Flashdrive (USB stick)      SIMATIC HMI USB stick      Network camera      Mechanics/material      Enclosure material (front)          Plastic          Aluminum         Stainless steel      Dimensions	Yes Yes; Up to 128 MB Yes; Up to 2 GB No Yes Yes; Up to 16 GB Yes; Up to 8 GB Yes No Yes No
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      USB memory      SIMATIC IPC USB Flashdrive (USB stick)      SIMATIC HMI USB stick      Network camera      Mechanics/material      Enclosure material (front)          Plastic          Aluminum          Stainless steel      Dimensions      Width of the housing front	Yes Yes; Up to 128 MB Yes; Up to 2 GB No Yes Yes; Up to 16 GB Yes; Up to 8 GB Yes No Yes No
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      USB memory      SIMATIC IPC USB Flashdrive (USB stick)      SIMATIC HMI USB stick      Network camera      Mechanics/material      Enclosure material (front)          Plastic          Aluminum          Stainless steel      Dimensions      Width of the housing front      Height of housing front	Yes Yes; Up to 128 MB Yes; Up to 2 GB No Yes Yes; Up to 16 GB Yes; Up to 8 GB Yes No Yes No Yes No
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      USB memory      SIMATIC IPC USB Flashdrive (USB stick)      SIMATIC HMI USB stick      Network camera      Mechanics/material      Enclosure material (front)          Plastic          Aluminum          Stainless steel      Dimensions      Width of the housing front      Height of housing front      Overall depth	Yes Yes; Up to 128 MB Yes; Up to 2 GB No Yes Yes; Up to 16 GB Yes; Up to 8 GB Yes No Yes No Yes No
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      USB memory      SIMATIC IPC USB Flashdrive (USB stick)      SIMATIC HMI USB stick      Network camera      Mechanics/material      Enclosure material (front)          Plastic          Aluminum         Stainless steel      Dimensions      Width of the housing front      Height of housing front      Weights	Yes Yes; Up to 128 MB Yes; Up to 2 GB No Yes Yes; Up to 16 GB Yes; Up to 8 GB Yes No Yes No 462 mm 296 mm; Without basic adapter 101 mm; Without basic adapter