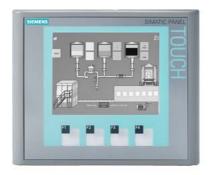
## **SIEMENS**

## **Data sheet**



\*\*\* spare part \*\*\* SIMATIC HMI KTP400 Basic mono PN, Basic Panel, key/touch operation, 4" STN display, 4 gray levels, PROFINET interface, configurable as of WinCC flexible 2008 SP2 Compact/ WinCC Basic V10.5/ STEP 7 Basic V10.5, contains open-source software, which is provided free of charge see enclosed CD

General information	
Product type designation	KTP400 Basic mono PN
Display	
Design of display	STN
Screen diagonal	3.8 in
Display width	76.8 mm
Display height	57.6 mm
Number of colors	4; Grayscales
Resolution (pixels)	
<ul> <li>Horizontal image resolution</li> </ul>	320 pixel
Vertical image resolution	240 pixel
Backlighting	
<ul> <li>MTBF backlighting (at 25 °C)</li> </ul>	30 000 h
<ul> <li>Backlight dimmable</li> </ul>	No
Control elements	
Keyboard fonts	
<ul> <li>Function keys</li> </ul>	
<ul> <li>Number of function keys</li> </ul>	4
<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; Analog-resistive
Installation type/mounting	
Mounting position	vertical
Rack mounting	No
Wall mounting/direct mounting	No
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
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)	0.1 A
Starting current inrush I²t	0.5 A²·s
Power	
Active power input, typ.	3 W
Processor	
Processor type	RISC 32 bit
Memory	
Flash	Yes
RAM	Yes
Memory available for user data	1 Mbyte
Type of output	
Acoustics	
Buzzer	Yes
Speaker	No
Time of day	
Clock	
Hardware clock (real-time)	No
Software clock	Yes
• retentive	No
• synchronizable	Yes
Interfaces	
Number of industrial Ethernet interfaces	1
Number of RS 485 interfaces	0
Number of RS 422 interfaces	0
Number of RS 232 interfaces	0
Number of USB interfaces	0
Number of 20 mA interfaces (TTY)	0
Number of parallel interfaces	0
Number of other interfaces	0
Number of SD card slots	0
With software interfaces	No
Industrial Ethernet	
<ul> <li>Industrial Ethernet status LED</li> </ul>	2
Protocols	
PROFINET	Yes
Supports protocol for PROFINET IO	No
IRT	No
PROFIBUS	No
EtherNet/IP	Yes
MPI	No
Protocols (Ethernet)	
• TCP/IP	Yes
DHCP	Yes
• SNMP	Yes
• DCP	Yes
• LLDP	Yes
WEB characteristics	
• HTTP	No
HTML	No
Further protocols	No
• CAN	No
MODBUS	Yes; Modicon (MODBUS TCP/IP)
Interrupts/diagnostics/status information	
Diagnoses	
Diagnostic information readable	No
Degree and class of protection	
IP (at the front)	IP65
IP (rear)	IP20
NEMA (front)	

- Englasting Title - 4 -4 4b - 5	Van
Enclosure Type 4 at the front     Type 4y at the front	Yes
Enclosure Type 4x at the front  Condomic Approximation and the following the foll	Yes
Standards, approvals, certificates	
CE mark	Yes
CULus	Yes
RCM (formerly C-TICK)	Yes
KC approval	Yes
Use in hazardous areas	No valid and vishan stated on the device name and tel
<ul><li>ATEX Zone 2</li><li>ATEX Zone 22</li></ul>	No; valid only when stated on the device nameplate!
• IECEx Zone 2	No; valid only when stated on the device nameplate!  No; valid only when stated on the device nameplate!
• IECEX Zone 22	
• cULus Class I Zone 1	No; valid only when stated on the device nameplate!
• cULus Class I Zone 2, Division 2	No; valid only when stated on the device nameplate!  No; valid only when stated on the device nameplate!
• cULus Class II Division 2	No; valid only when stated on the device nameplate!
FM Class I Division 2	No; valid only when stated on the device nameplate!
FM Class I Division 2  FM Class II Division 2	No; valid only when stated on the device nameplate!
Marine approval	No, valid only when stated on the device hameplate:
Germanischer Lloyd (GL)	Yes; valid only when stated on the device nameplate!
American Bureau of Shipping (ABS)	Yes; valid only when stated on the device nameplate!
Bureau Veritas (BV)	Yes
Det Norske Veritas (DNV)	Yes
Korean Register of Shipping (KRS)	No
Lloyds Register of Shipping (RRS)	Yes
Nippon Kaiji Kyokai (Class NK)	Yes
Polski Rejestr Statkow (PRS)	Yes
Chinese Classification Society (CCS)	No
Ambient conditions	INO
Suited for indoor use	Yes
Suited for outdoor use	No
Ambient temperature during operation	INO
Operation (vertical installation)	
For vertical installation, min.	0°C
For vertical installation, max.	50 °C
Operation (max. tilt angle)	30 C
— At maximum tilt angle, min.	0°C
— At maximum tilt angle, max.	40 °C
Operation (vertical installation, portrait format)	40 0
— For vertical installation, min.	0 °C
- For vertical installation, max.	50 °C
Operation (max. tilt angle, portrait format)	
— 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	Yes
pre-installed operating system	
Windows CE	No
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 T Professional (TIA Portal)	OTED 7 Danie (TIA Daniel)	Variable interpreted Min CO Danie (TIA Dantel)
WinCC flexible Compact	STEP 7 Basic (TIA Portal)	Yes; via integrated WinCC Basic (TIA Portal)
WinCC Baxile Standard WinCC Basic (TIA Portal) WinCC Comfort (TA Portal) WinCC Portessional (TIA Portal) WinCC Professional (TIA Portal) WinCC Professional (TIA Portal) WinCC Professional (TIA Portal) WinCC Professional (TIA Portal)  Ves  **Descriptional Professional Comments of Security of Sec		
WinCC fexible Advanced   Yes		
WinCC Basic (TIA Portal) WinCC Control (TIA Portal) WinCC Advanced (TIA Portal) WinCC Professional (TIA Portal) WinCC Professional (TIA Portal)  Languages  Number of onlineruntime languages  Number of onlineruntime languages  Ves  Languages  Ves  Loraries  No  SIAMTIC WinCC GTIA Portal)  Libraries  Web browser  No  SIAMTIC WinCC Sm@rtServer  No  Task planner  Inne-controlled No  Lask-controlled Ves  Help system  Number of characters per info text  Wessage system  Number of alam classes  Ves  Namber of bit messages  Ves  Namber of bit messages  Ves  Namber of bit messages  Analog messages  Nessages  No  System messages HMI  System messages HMI  System of characters per message  Number of process values per message  Number of recipe  Data records per data record  Size of internal recipe memory  Alkayte  Necope menonry expandable  Number of variables per device  No  No  No  No  No  No  No  No  No  N		
WinCC Comfort (TIA Portal)		
WinCC Advanced (TIA Portal) WinCC Professional (TIA Portal) Ves  Languages  Number of online/funtime languages  Languages  Languages per project  Languages  Languages per project  Judicalise System  Web browser  SIAMTIC WinCC Sm@rtServer  No  SIAMTIC WinC Sm@rtServer  No  SIAMTIC WinC Sm@rtServer  No  Task planner  Imme-controlled  No  Lask-controlled  Ves  Help system  Number of haracters per info text  Sumber of salam classes  - Number of baracters per info text  System messages HMI System vent, more (SIMATIC SY, SINUMERIK, SINOTION,)  Number of characters per message  Number of characters per message  - Number of of characters per message  Number of or process values per message  Number of process values per message  Number of characters per message  Number of process values per message  Number of variables per device  - Recipe meanguement  Number of active  Ves  Recipe meanguement  Number of variables per device  Number of variables per screen  Structures  No  Variables  Number of variables per screen  Sumbulsung  Ves  Structures  No  Permanent window/default  Ves  Clickidal image  Ves  No  Permanent window/default  Ves  Clickid image  Ves  No  Permanent window/default  Ves  Clickid image  Ves  No  Permanent window/default  Ves  Language  No  No  Permanent window/default  Ves  Language  No  Permanent window/default  Ves  Language  No  Permanent window/default  Ves  Language  No  No  Permanent window/default  Ves  Language  No		
WinCC Professional (TIA Portal)  Innguages  Number of online languages  Languages per project  Languages per project  Libraries  Applications/options  No  SIMATIC WinCC Sm@rtServer  No  Insectional Simulations  No  SIMATIC WinCC Sm@rtServer  No  SIMATIC WinCC Sm@rtServer  No  Insectional Simulations  No		
Online languages  Number of online/runtime languages  Number of conline/runtime languages  Languages per project  Languages per project  Languages per project  Languages per project  Applications/cytions  none  Web browser  No  SIMATIC WinCC Sm@rtServer  Task planner  itme-controlled  task controlled  Yes  Help system  Number of characters per info text  Sazo  Message system  Number of orlarm classes  Bit messages  Humber of int messages  Analog messages  - Number of analog messages  - Number of nandog messages  System remsages HMI  System event, more (SIMATIC ST, SINUMERIK, No SIMOTION,)  Number of characters per message  Number of process values per message  Number of process values per message  Message indicator  Message indicator  Message indicator  Nessage buffer  Number of entries  - Circulating buffer  - Ves  Recide management  Number of recipes  Data records per recipe  D	·	
Number of online/numime languages   5		165
Project languages   5  Project languages   2  **Languages per project   32  **Functionality under Vinice** (TIA Portal)  **Libraries   Yes   Applications/cpitons   none    **Web browser   No    **SIMATIC WinCC SIM@rtServer   No    **Task planner    **Inne-controlled   No    **Latak-controlled   Yes    **Inne-controlled   Yes    **Inne-controll		
Project languages  ■ Languages per project  ■ Languages per project    Functionality under WinGC (TIA Portal)   Libraries		5
# Languages per project   Functionality under WinCC (TIA Portal)   Libraries   Yes		<u> </u>
Functionality under WinCC (TIA Portal)		32
Libraries		-
Applications/options   No		Yes
Web browser   No		
◆ SIMATIC WinCC Sm@rtServer         No           Task planner         • time-controlled           • task-controlled         Yes           Help system         • Number of characters per info text         320           Message system         • Number of alarn classes         32           • Bit messages         Yes           — Number of bit messages         200           • Analog messages         Yes           — Number of analog messages         15           • System event, more (SIMATIC S7, SINUMERIK, SIMOTION,)         No           • Number of characters per message         80           • Number of process values per message         8           • Message indicator         Yes           — Number of entries         256           — Circulating buffer         Yes           — retentive         Yes           — maintenance-free         Yes           — maintenance-free         Yes           • Data records per recipe         20           • Entries per data record         20           • Size of internal recipe memory expandable         No </td <td></td> <td></td>		
Task planner		
time-controlled		
Help system	·	No
Number of characters per info text   320	• task-controlled	Yes
Number of alarm classes   32	Help system	
● Number of alarm classes         32           ● Bit messages         Yes           — Number of bit messages         200           • Analog messages         Yes           — Number of analog messages         15           • System messages HMI         Yes           • System event, more (SIMATIC S7, SINUMERIK, SIMOTION,)         No           • Number of characters per message         80           • Number of process values per message         8           • Message indicator         Yes           • Message buffer         Yes           — Number of entries         256           — Circulating buffer         Yes           — retentive         Yes           — maintenance-free         Yes           Recipe management         **           • Number of recipes         5           • Data records per recipe         20           • Entries per data record         20           • Size of internal recipe memory         40 kbyte           • Recipe memory expandable         No           • Number of variables per device         250           • Number of variables per screen         30           • Limit values         Yes           • Multiplexing         Yes	Number of characters per info text	320
● Bit messages         Yes           — Number of bit messages         200           • Analog messages         Yes           — Number of analog messages         15           • System messages HMI         Yes           • System weent, more (SIMATIC S7, SINUMERIK, SIMOTION,)         No           • Number of characters per message         80           • Number of process values per message         8           • Message indicator         Yes           • Message buffer         Yes           — Number of entries         256           — Circulating buffer         Yes           — retentive         Yes           — maintenance-free         Yes           Recipe management         5           • Number of recipes         5           • Data records per recipe         20           • Entries per data record         20           • Entries per data record         20           • Entries per data record         20           • Number of variables per device         250           • Number of variables per screen         30           • Limit values         Yes           • Multiplexing         Yes           • Multiplexing         Yes           • Numbe	Message system	
Number of bit messages         200           • Analog messages         Yes           — Number of analog messages         15           • System messages HMI         Yes           • System event, more (SIMATIC S7, SINUMERIK, SIMOTION,)         No           • Number of characters per message         80           • Number of process values per message         8           • Message indicator         Yes           • Message buffer         —           — Number of entries         256           — Circulating buffer         Yes           — retentive         Yes           — maintenance-free         Yes           Recipe management         •           • Number of recipes         5           • Data records per recipe         20           • Entries per data record         20           • Size of internal recipe memory         40 kbyte           • Recipe memory expandable         No           • Number of variables per device         250           • Number of variables per screen         30           • Limit values         Yes           • Multiplexing         Yes           • Structures         No           • Arrays         Yes           Images	<ul> <li>Number of alarm classes</li> </ul>	32
Analog messages  — Number of analog messages  15  System messages HMI  System event, more (SIMATIC S7, SINUMERIK, SIMOTION,)  Number of characters per message  Number of process values per message  Message indicator  Message indicator  Message indicator  Message buffer  — Number of entries  — Circulating buffer  — Number of entries  — Circulating buffer  — wes  — maintenance-free  Recipe management  Number of recipes  Data records per recipe  Data records per recipe  Size of internal recipe memory  Recipe memory expandable  No  Variables  Number of variables per device  Number of variables per screen  Arrays  Structures  Arrays  No  Permanent window/default  Yes  Images  Number of configurable images  Number of variandow/default  Yes  Images  Images  Images  Images  Images  Images	Bit messages	Yes
- Number of analog messages 15  • System messages HMI Yes  • System event, more (SIMATIC ST, SINUMERIK, SIMOTION,)  • Number of characters per message 80  • Number of process values per message 8  • Message indicator Yes  • Message buffer	<ul> <li>Number of bit messages</li> </ul>	200
System event, more (SIMATIC S7, SINUMERIK, SIMOTION,)  Number of characters per message 80  Number of process values per message 8  Message indicator Yes  Message buffer 2  - Number of entries 256  - Circulating buffer Yes  - retentive Yes  - maintenance-free Yes  Recipe management  Number of recipes 5  Data records per recipe 20  Entries per data record 20  Entries per data record 40 kbyte  Recipe memory expandable No  Variables  Number of variables per device 250  Number of variables per screen 30  Limit values Yes  Multiplexing Yes  Arrays Yes  Images  Number of configurable images 50  Permanent window/default Yes  Image selection by PLC  Yes  Image selection by PLC  No  No  Variage SINCHIER SINCH	<u> </u>	Yes
System event, more (SIMATIC S7, SINUMERIK, SIMOTION,)  Number of characters per message Number of process values per message Message indicator Message buffer  Number of entries Circulating buffer Number of entries Persanagement  Number of recipes Data records per recipe Entries per data record Size of internal recipe memory Recipe memory expandable  Number of variables per screen Number of variables per screen Number of configurable images Number of configurable images Number of configurable images Number of configurable images Number of variables Number of variables Number of variables per device Number of variables per screen Structures No Persanagement  Pes Number of variables No Persanagement  No		15
SIMOTION,)  Number of characters per message Number of process values per message Message indicator Message buffer  Number of entries Service of circulating buffer Number of entries Service of circulating buffer Nest of circulating buffer Number of recipes Data records per recipe Data records per recipe Entries per data record Size of internal recipe memory No  Variables  No  Variables Number of variables per device Number of variables per screen Limit values Multiplexing Structures Arrays Yes Multiplexing Structures Arrays Yes  No Permanent window/default Yes Olobal image Image Selection by PLC Yes		Yes
<ul> <li>Number of process values per message</li> <li>Message indicator</li> <li>Message buffer</li> <li>— Number of entries</li> <li>— Circulating buffer</li> <li>— retentive</li> <li>— maintenance-free</li> <li>Yes</li> <li>— maintenance-free</li> <li>Yes</li> <li>Recipe management</li> <li>Number of recipes</li> <li>Data records per recipe</li> <li>Entries per data record</li> <li>Size of internal recipe memory</li> <li>Recipe memory expandable</li> <li>No</li> <li>Variables</li> <li>Number of variables per device</li> <li>Number of variables per screen</li> <li>Multiplexing</li> <li>Structures</li> <li>Multiplexing</li> <li>Arrays</li> <li>Permanent window/default</li> <li>Global image</li> <li>Image selection by PLC</li> <li>Yes</li> </ul>		No
Message indicator  Message buffer  Number of entries  Circulating buffer  Pess  Recipe management  Number of recipes  Data records per recipe  Entries per data record  Size of internal recipe memory  Recipe memory expandable  No  Variables  Number of variables per device  Number of variables per screen  Multiplexing  Structures  Multiplexing  Structures  Mumber of configurable images  Permanent window/default  Global image  Message indicator  Yes  Ves  Mugsage indicator  Yes  Structures  No  Yes  Global image  Message buffer  Z56  Ves  No  Yes  So  Permanent window/default  Yes  Image selection by PLC  Yes	<ul> <li>Number of characters per message</li> </ul>	80
Message buffer  Number of entries  Circulating buffer  Yes  Iretentive  Maintenance-free  Recipe management  Number of recipes  Data records per recipe  Entries per data record  Size of internal recipe memory  Recipe memory expandable  No  Variables  Number of variables per device  Number of variables per screen  Multiplexing  Structures  Multiplexing  Tyes  Number of configurable images	<ul> <li>Number of process values per message</li> </ul>	8
Number of entries 256 Circulating buffer Yes retentive Yes maintenance-free Yes  Recipe management  ● Number of recipes 5 ● Data records per recipe 20 ● Entries per data record 20 ● Size of internal recipe memory 40 kbyte ● Recipe memory expandable No  Variables  ● Number of variables per device 250 ● Number of variables per screen 30 ● Limit values Yes ● Multiplexing Yes ● Multiplexing Yes ● Structures No ● Arrays Yes  Images  ● Number of configurable images 50 ● Permanent window/default Yes ● Global image Yes ● Image selection by PLC Yes	Message indicator	Yes
Circulating buffer Yes retentive Yes maintenance-free Yes  Recipe management  • Number of recipes 5 • Data records per recipe 20 • Entries per data record 20 • Size of internal recipe memory 40 kbyte • Recipe memory expandable No  Variables  • Number of variables per device 250 • Number of variables per screen 30 • Limit values Yes • Muttiplexing Yes • Structures No • Arrays Yes  Images  • Number of configurable images 50 • Permanent window/default Yes • Global image Yes • Image selection by PLC  • Yes		
- retentive Yes - maintenance-free Yes  Recipe management  • Number of recipes • Data records per recipe • Entries per data record • Size of internal recipe memory • Recipe memory expandable • Number of variables per device • Number of variables per screen • Number of variables per screen • Muttiplexing • Structures • Arrays  • Number of configurable images • Number of configurable images • Permanent window/default Yes • Images		256
- maintenance-free Yes  Recipe management  Number of recipes Data records per recipe Entries per data record Size of internal recipe memory Recipe memory expandable No  Variables  Number of variables per device Number of variables per screen Structures Arrays No Arrays  No Permanent window/default Yes Global image Images	_	
Recipe management  Number of recipes Data records per recipe Entries per data record Size of internal recipe memory Recipe memory expandable No  Variables  Number of variables per device Number of variables per screen Number of variables per screen Limit values Multiplexing Structures Arrays No Arrays  No Permanent window/default Yes Global image Images Ima		
<ul> <li>Number of recipes</li> <li>Data records per recipe</li> <li>Entries per data record</li> <li>Size of internal recipe memory</li> <li>Recipe memory expandable</li> <li>No</li> </ul> Variables <ul> <li>Number of variables per device</li> <li>Number of variables per screen</li> <li>Number of variables per screen</li> <li>Multiplexing</li> <li>Structures</li> <li>Arrays</li> <li>No</li> <li>Arrays</li> <li>Permanent window/default</li> <li>Global image</li> <li>Image selection by PLC</li> </ul>		Yes
<ul> <li>Data records per recipe</li> <li>Entries per data record</li> <li>Size of internal recipe memory</li> <li>Recipe memory expandable</li> <li>No</li> </ul> Variables <ul> <li>Number of variables per device</li> <li>Number of variables per screen</li> <li>Number of variables per screen</li> <li>Multiplexing</li> <li>Structures</li> <li>Arrays</li> <li>Arrays</li> <li>No</li> <li>Arrays</li> <li>Permanent window/default</li> <li>Global image</li> <li>Image selection by PLC</li> <li>Yes</li> </ul>		
Entries per data record Size of internal recipe memory Recipe memory expandable  Variables  No  Variables  No  No  Variables  No  No  No  No  No  No  No  No  No  N		
<ul> <li>Size of internal recipe memory</li> <li>Recipe memory expandable</li> <li>No</li> </ul> Variables <ul> <li>Number of variables per device</li> <li>Number of variables per screen</li> <li>Number of variables per screen</li> <li>Limit values</li> <li>Multiplexing</li> <li>Structures</li> <li>Arrays</li> <li>Arrays</li> <li>No</li> <li>Arrays</li> <li>Number of configurable images</li> <li>Permanent window/default</li> <li>Global image</li> <li>Image selection by PLC</li> </ul>	·	
<ul> <li>Recipe memory expandable</li> <li>Variables</li> <li>Number of variables per device</li> <li>Number of variables per screen</li> <li>Number of variables per screen</li> <li>Limit values</li> <li>Multiplexing</li> <li>Structures</li> <li>Arrays</li> <li>Arrays</li> <li>No</li> <li>Arrays</li> <li>Number of configurable images</li> <li>Permanent window/default</li> <li>Global image</li> <li>Image selection by PLC</li> <li>Yes</li> </ul>		
Variables  Number of variables per device Number of variables per screen Number of variables per screen  Number of variables per screen Number of variables		
<ul> <li>Number of variables per device</li> <li>Number of variables per screen</li> <li>Number of variables per screen</li> <li>Limit values</li> <li>Yes</li> <li>Multiplexing</li> <li>Structures</li> <li>No</li> <li>Arrays</li> <li>Yes</li> <li>Images</li> <li>Number of configurable images</li> <li>Permanent window/default</li> <li>Global image</li> <li>Image selection by PLC</li> <li>Yes</li> </ul>		110
<ul> <li>Number of variables per screen</li> <li>Limit values</li> <li>Multiplexing</li> <li>Structures</li> <li>Arrays</li> <li>Yes</li> <li>Arrays</li> <li>Yes</li> <li>Images</li> <li>Permanent window/default</li> <li>Global image</li> <li>Image selection by PLC</li> <li>Yes</li> </ul>		250
<ul> <li>Limit values</li> <li>Multiplexing</li> <li>Structures</li> <li>Arrays</li> <li>Arrays</li> <li>Yes</li> <li>Images</li> <li>Number of configurable images</li> <li>Permanent window/default</li> <li>Global image</li> <li>Image selection by PLC</li> <li>Yes</li> </ul>		
<ul> <li>Structures</li> <li>Arrays</li> <li>Yes</li> </ul> Images <ul> <li>Number of configurable images</li> <li>Permanent window/default</li> <li>Global image</li> <li>Image selection by PLC</li> </ul> Yes <ul> <li>Image selection by PLC</li> </ul> Yes <ul> <li>Yes</li> </ul>		
<ul> <li>Structures</li> <li>Arrays</li> <li>Yes</li> </ul> Images <ul> <li>Number of configurable images</li> <li>Permanent window/default</li> <li>Global image</li> <li>Image selection by PLC</li> </ul> Yes <ul> <li>Image selection by PLC</li> </ul> Yes <ul> <li>Yes</li> </ul>	Multiplexing	Yes
Images  • Number of configurable images  • Permanent window/default  • Global image  • Image selection by PLC  • Yes		No
<ul> <li>Number of configurable images</li> <li>Permanent window/default</li> <li>Global image</li> <li>Image selection by PLC</li> <li>Yes</li> </ul>	Arrays	Yes
<ul> <li>Permanent window/default</li> <li>Global image</li> <li>Image selection by PLC</li> <li>Yes</li> <li>Yes</li> </ul>	Images	
<ul> <li>Global image</li> <li>Image selection by PLC</li> <li>Yes</li> </ul>	<ul> <li>Number of configurable images</li> </ul>	50
• Image selection by PLC Yes	<ul> <li>Permanent window/default</li> </ul>	Yes
Image number in the PLC     Yes		
	Image number in the PLC	Yes

Number of objects per image	Image objects	
■ Text fields ■ (Of fields (graphics list) ■ (Graphic I/O fields (ext list) ■ (Gra		30
	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	
Switches     Switches     Switches     Subtons     Sraphic display     Yes     Complex display     Yes     Commentic objects     Yes     Commentic objects     Yes     Commentic objects     Switches     Switches     Number of complex objects per screen     Sharm view     Yes     Number of user groups     Sicurity     Number of text lists per project     Number of entries per feat list     Number of entries per graphics list     Number of user groups		
Graphic display   Yes		
Coons		
Openetric objects Complex image objects Number of complex objects per screen  Alarm view  Alarm view  Alarm view  Fread view  User view  Status/control  No  Sing®-Ciclient view  Recipe view  Recipe view  System diagnostics view  No  Media Player  No  Bar graphs  Sidiers  No  Analog/digital clock  Usits  Number of text lists per project  Number of entries per text list  Number of entries per text list  Number of entries per project  Number of entries per text list  Number of entries per folice  Number of losers  Number of user groups  No  SinkATIC Logon  No  Forender ests  Keyboard fonts  — US English  Yes  Transfer (µloaddownbad)  MeiµPRCPIBUS DP  No  USB  SinkATIC Logon  No  Process coupling  ST-1200  Yes  ST-1500  Yes  ST-1500  Yes  ST-1500  Yes  SINLOTION  No  Allein Bradley (ElterNet/IP)  Allein Bradley (ElterNet/IP)  Allein Bradley (DF1)  No		
Number of complex objects per screen   S		
		res
		E
User view Status/control Status/co		
Status/control     Sm@rtClient view     No     Recipe view     Yes     (f(x) trend view     No     System diagnostics view     No     Media Player     No     Bar graphs     Silders     No     Pointer instruments     No     Analog/digital clock     No Lists  Number of text lists per project     Number of text lists per project     Number of entries per text list     Number of entries per text list     Number of entries per graphics list  Archiving     Number of archives per device     Number of user groups     Number of user rights     32     Number of user rights     32     Number of user rights     32     Number of user sights		
Recipe view		
	_	
System diagnostics view     Media Player     No     Media Player     Silders     No     Pointer instruments     No     Analog/digital clock     No     Analog/digital clock     No  Lists      Number of text lists per project     Number of entries per text list     Number of entries per text list     Number of entries per graphics list     Number of user groups     Number of user ights     Signation     No     Signation     Signation     No     No     Signation     No     No     Signation		
Media Player     Bar graphs     Sliders     No     Sliders     Pointer instruments     No     Analog/digital clock     No     No LISTS     Number of text lists per project     Number of text lists per project     Number of entries per text list     Number of graphics lists per project     Number of entries per text list     Number of entries per graphics list     Number of entries per graphics list     Number of entries per graphics list     Number of users     Number of users     Number of user groups     Number of users     Number o		
Sliders     Pointer instruments     Analog/digital clock     No     Analog/digital clock     No     Number of text lists per project     Number of entries per text list     Number of graphics lists per project     Number of graphics lists per project     Number of entries per graphics list     Number of user groups     Number of user groups     Number of user groups     Number of user groups     Number of user ights     Number of users     Number of user with light ligh		
Pointer instruments Analog/digital clock No  Analog/digital clock No  No  Number of text lists per project Number of graphics lists per project Number of entries per text list Number of entries per project Number of entries per graphics list Number of entries per graphics list Number of entries per graphics list  Archiving  Number of user groups Number of user groups Number of user rights Subject of user rights Number of user rights No		
Number of text lists per project   150		
Number of text lists per project     Number of entries per text list     Number of entries per text list     Number of entries per graphics list     Number of entries per graphics list     Number of entries per graphics list     Number of archives per device     Number of user groups     Number of user sets     Number of users     Password export/import     No     SIMATIC Logon     No  Character sets     Keyboard fonts     US English     Yes  Transfer (upload/download)     NPI/PROFIBUS DP     No     USB     No     Ethernet     ves     using external storage medium  Process coupling     S7-1200     Yes     S7-1500     Yes     S7-1500     Yes     S7-300/400     Ves     SINUMERIK     No     Allen Bradley (EtherNet/IP)     Allen Bradley (DF1)     No		NO
Number of entries per text list     Number of graphics lists per project     Number of entries per graphics list     Number of entries per graphics list      Archiving     Number of archives per device     O  Security     Number of user groups     Number of user groups     Number of user lights     32     Number of user seport/import     No     SiMATIC Logon     No  Character sets     Keyboard fonts     — US English     Yes  Transfer (upload/download)      MPI/PROFIBUS DP     USB     Siban No     Ethernet     Yes     using external storage medium  Process coupling     S7-1200     Yes     S7-200     Yes     S7-300/400     LOGO!     WinAC     SIMUMERIK     No     Allen Bradley (EtherNet/IP)     Allen Bradley (EtherNet/IP)     Allen Bradley (DF1)     No		450
<ul> <li>Number of graphics lists per project</li> <li>Number of entries per graphics list</li> <li>Number of archives per device</li> <li>Number of user groups</li> <li>Number of user groups</li> <li>Number of user rights</li> <li>Number of user rights</li> <li>Number of user rights</li> <li>Number of users</li> <li>Number of users</li> <li>Password export/import</li> <li>No</li> <li>SIMATIC Logon</li> <li>No</li> <li>SIMATIC Logon</li> <li>No</li> <li>Character sets</li> <li>Keyboard fonts         <ul> <li>US English</li> <li>Yes</li> </ul> </li> <li>Transfer (upload/download)</li> <li>MPI/PROFIBUS DP</li> <li>No</li> <li>USB</li> <li>Ethernet</li> <li>using external storage medium</li> <li>No</li> <li>Process coupling</li> </ul> <li>\$7-1200</li> <li>\$7-1500</li> <li>Yes</li> <li>\$7-200</li> <li>\$7-300/400</li> <li>Yes</li> <li>ST-200</li> <li>Yes</li> <li>ST-300/400</li> <li>SSINUMERIK</li> <li>SIMOTION</li> <li>Allen Bradley (EtherNet/IP)</li> <li>Allen Bradley (EtherNet/IP)</li> <li>Allen Bradley (DF1)</li>		
Number of entries per graphics list     Archiving     Number of archives per device     Number of user groups     Number of user groups     Number of user rights     Number of users     Number of user		
Archiving		
Number of archives per device     Security     Number of user groups     Number of user rights     Number of users     Number of user individual of users     Number of users		30
Number of user groups   50		
<ul> <li>Number of user groups</li> <li>Number of user rights</li> <li>Number of users</li> <li>Number of users</li> <li>Number of users</li> <li>Password export/import</li> <li>No</li> <li>SIMATIC Logon</li> <li>No</li> <li>Character sets</li> <li>Keyboard fonts</li></ul>	·	U
<ul> <li>Number of user rights</li> <li>Number of users</li> <li>Password export/import</li> <li>No</li> <li>SIMATIC Logon</li> <li>No</li> <li>Character sets</li> <li>Keyboard fonts         <ul> <li>US English</li> <li>Yes</li> </ul> </li> <li>Transfer (upload/download)</li> <li>MPI/PROFIBUS DP</li> <li>USB</li> <li>USB</li> <li>Using external storage medium</li> <li>No</li> <li>Process coupling</li> <li>S7-1200</li> <li>S7-1200</li> <li>Yes</li> <li>S7-200</li> <li>Yes</li> <li>S7-300/400</li> <li>Yes</li> <li>UGG!</li> <li>WinAC</li> <li>SINUMERIK</li> <li>SIMOTION</li> <li>Allen Bradley (EtherNet/IP)</li> <li>Yes</li> <li>Allen Bradley (EtherNet/IP)</li> <li>Allen Bradley (DF1)</li> </ul>	-	50
<ul> <li>Number of users</li> <li>Password export/import</li> <li>No</li> <li>SIMATIC Logon</li> <li>No</li> </ul> Character sets <ul> <li>Keyboard fonts</li> <li>— US English</li> <li>Yes</li> </ul> Transfer (upload/download) <ul> <li>MPI/PROFIBUS DP</li> <li>No</li> <li>USB</li> <li>Ethernet</li> <li>using external storage medium</li> <li>No</li> </ul> Process coupling <ul> <li>\$7-1200</li> <li>\$7-1200</li> <li>\$7-200</li> <li>\$7-200</li> <li>\$7-200</li> <li>\$7-300/400</li> <li>LOGO!</li> <li>WinAC</li> <li>SINUMERIK</li> <li>SIMOTION</li> <li>Allen Bradley (EtherNet/IP)</li> <li>Allen Bradley (DF1)</li> <li>No</li> </ul>	- · ·	
<ul> <li>Password export/import</li> <li>SIMATIC Logon</li> <li>No</li> <li>Character sets</li> <li>Keyboard fonts         — US English</li> <li>Yes</li> <li>Transfer (upload/download)</li> <li>MPI/PROFIBUS DP</li> <li>USB</li> <li>Ethernet</li> <li>using external storage medium</li> <li>No</li> <li>Process coupling</li> <li>\$7-1200</li> <li>\$7-1200</li> <li>\$7-1500</li> <li>\$7-200</li> <li>\$7-200</li> <li>\$7-200</li> <li>\$7-200</li> <li>\$1-200</li> <li< td=""><td></td><td></td></li<></ul>		
● SIMATIC Logon No  Character sets  ● Keyboard fonts — US English Yes  Transfer (upload/download)  ● MPI/PROFIBUS DP No  ● USB No  ● Ethernet Yes  ● using external storage medium No  Process coupling  ● S7-1200 Yes  ● S7-1500 Yes  ● S7-200 Yes  ● S7-300/400 Yes  ● S7-300/400 Yes  ● S7-300/400 Yes  ● S1-300/400 Yes  ● S1-300/400 Yes  ● S1-300/400 Yes  ● SINUMERIK No  ● SINUMERIK No  ● SIMOTION No  ● Allen Bradley (EtherNet/IP) Yes  ● Allen Bradley (DF1) No		
Character sets         ● Keyboard fonts         — US English       Yes         Transfer (upload/download)         ● MPI/PROFIBUS DP       No         ● USB       No         ● Ethernet       Yes         ● using external storage medium       No         Process coupling         ● S7-1200       Yes         ● S7-1500       Yes         ● S7-200       Yes         ● S7-300/400       Yes         ● LOGO!       Yes         ● WinAC       Yes         ● SINUMERIK       No         ● SIMOTION       No         ● Allen Bradley (EtherNet/IP)       Yes         ● Allen Bradley (DF1)       No		
		NO
— US English         Yes           Transfer (upload/download)         No           ● MPI/PROFIBUS DP         No           ● USB         No           ● Ethernet         Yes           ● using external storage medium         No           Process coupling           ● S7-1200         Yes           ● S7-1500         Yes           ● S7-200         Yes           ● S7-300/400         Yes           ● LOGO!         Yes           ● WinAC         Yes           ● SINUMERIK         No           ● SIMOTION         No           ● Allen Bradley (EtherNet/IP)         Yes           ● Allen Bradley (DF1)         No		
Transfer (upload/download)           ● MPI/PROFIBUS DP         No           ● USB         No           ● Ethernet         Yes           ● using external storage medium         No           Process coupling           ● S7-1200         Yes           ● S7-1500         Yes           ● S7-200         Yes           ● S7-300/400         Yes           ● LOGO!         Yes           ● WinAC         Yes           ● SINUMERIK         No           ● SIMOTION         No           ● Allen Bradley (EtherNet/IP)         Yes           ● Allen Bradley (DF1)         No		Vee
		res
<ul> <li>USB</li> <li>Ethernet</li> <li>Using external storage medium</li> <li>No</li> <li>Process coupling</li> <li>S7-1200</li> <li>S7-1500</li> <li>S7-200</li> <li>S7-200</li> <li>S7-300/400</li> <li>LOGO!</li> <li>WinAC</li> <li>SINUMERIK</li> <li>SIMOTION</li> <li>Allen Bradley (EtherNet/IP)</li> <li>Allen Bradley (DF1)</li> <li>No</li> </ul>	· · · · · · · · · · · · · · · · · · ·	No
<ul> <li>Ethernet</li> <li>using external storage medium</li> <li>No</li> <li>Process coupling</li> <li>S7-1200</li> <li>S7-1500</li> <li>Yes</li> <li>S7-200</li> <li>Yes</li> <li>S7-300/400</li> <li>Yes</li> <li>LOGO!</li> <li>WinAC</li> <li>WinAC</li> <li>SINUMERIK</li> <li>SIMOTION</li> <li>Allen Bradley (EtherNet/IP)</li> <li>Allen Bradley (DF1)</li> <li>No</li> </ul>		
■ using external storage medium  Process coupling      ■ \$7-1200     ■ \$7-1500     ■ \$7-200     ■ \$7-200     ■ \$7-300/400     ■ \$7-300/400     ■ \$1.00		
Process coupling		
<ul> <li>\$7-1200</li> <li>\$7-1500</li> <li>\$7-200</li> <li>\$7-300/400</li> <li>\$1.000</li> <li>\$1.000&lt;</li></ul>		NO
<ul> <li>\$7-1500</li> <li>\$7-200</li> <li>\$7-300/400</li> <li>\$Yes</li> <li>LOGO!</li> <li>WinAC</li> <li>\$SINUMERIK</li> <li>\$SIMOTION</li> <li>Allen Bradley (EtherNet/IP)</li> <li>Allen Bradley (DF1)</li> </ul>	· -	Voc
<ul> <li>\$7-200</li> <li>\$7-300/400</li> <li>LOGO!</li> <li>WinAC</li> <li>\$SINUMERIK</li> <li>\$SIMOTION</li> <li>Allen Bradley (EtherNet/IP)</li> <li>Allen Bradley (DF1)</li> <li>Yes</li> <li>Yes</li> <li>Yes</li> <li>No</li> </ul>		
<ul> <li>\$7-300/400</li> <li>LOGO!</li> <li>WinAC</li> <li>SINUMERIK</li> <li>SIMOTION</li> <li>Allen Bradley (EtherNet/IP)</li> <li>Allen Bradley (DF1)</li> <li>Yes</li> <li>Yes</li> <li>Yes</li> <li>No</li> </ul>		
<ul> <li>LOGO!         <ul> <li>WinAC</li> <li>SINUMERIK</li> <li>SIMOTION</li> <li>Allen Bradley (EtherNet/IP)</li> <li>Allen Bradley (DF1)</li> </ul> </li> </ul>		
<ul> <li>WinAC</li> <li>SINUMERIK</li> <li>SIMOTION</li> <li>Allen Bradley (EtherNet/IP)</li> <li>Allen Bradley (DF1)</li> </ul>		
<ul> <li>SINUMERIK</li> <li>SIMOTION</li> <li>Allen Bradley (EtherNet/IP)</li> <li>Allen Bradley (DF1)</li> <li>No</li> </ul>		
<ul> <li>SIMOTION</li> <li>Allen Bradley (EtherNet/IP)</li> <li>Allen Bradley (DF1)</li> <li>No</li> </ul>		
<ul> <li>Allen Bradley (EtherNet/IP)</li> <li>Allen Bradley (DF1)</li> <li>No</li> </ul>		
Allen Bradley (DF1)     No		
Mitsubishi (MC TCP/IP)     Yes		
	Mitsubishi (MC TCP/IP)	Yes

Mitandiali (EV)	A1-
Mitsubishi (FX)	No
OMRON (FINS TCP)	No
<ul> <li>OMRON (LINK/Multilink)</li> </ul>	No
<ul> <li>Modicon (Modbus TCP/IP)</li> </ul>	Yes
Modicon (Modbus)	No
Service tools/configuration aids	
<ul> <li>Backup/Restore manually</li> </ul>	Yes
<ul> <li>Backup/Restore automatically</li> </ul>	No
<ul><li>Simulation</li></ul>	Yes
Device switchover	Yes
Peripherals/Options	
Printer	No
SIMATIC HMI MM memory card: Multi Media Card	No
SIMATIC HMI SD memory card: Secure Digital memory card	No
USB memory	No
USB memory Mechanics/material	No
	No
Mechanics/material	No Yes
Mechanics/material Enclosure material (front)	
Mechanics/material  Enclosure material (front)  • Plastic	Yes
Mechanics/material  Enclosure material (front)  • Plastic  • Aluminum	Yes No
Mechanics/material  Enclosure material (front)  • Plastic  • Aluminum  • Stainless steel	Yes No
Mechanics/material  Enclosure material (front)  • Plastic  • Aluminum  • Stainless steel  Dimensions	Yes No No
Mechanics/material  Enclosure material (front)  • Plastic  • Aluminum  • Stainless steel  Dimensions  Width of the housing front	Yes No No
Mechanics/material  Enclosure material (front)  Plastic Aluminum Stainless steel  Dimensions  Width of the housing front Height of housing front	Yes No No 140 mm 116 mm
Mechanics/material  Enclosure material (front)  Plastic Aluminum Stainless steel  Dimensions  Width of the housing front Height of housing front Mounting cutout, width	Yes No No 140 mm 116 mm 123 mm
Mechanics/material  Enclosure material (front)  Plastic Aluminum Stainless steel  Dimensions  Width of the housing front Height of housing front Mounting cutout, width Mounting cutout, height	Yes No No 140 mm 116 mm 123 mm 99 mm
Mechanics/material  Enclosure material (front)  Plastic Aluminum Stainless steel  Dimensions  Width of the housing front Height of housing front Mounting cutout, width Mounting cutout, height Overall depth	Yes No No 140 mm 116 mm 123 mm 99 mm

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