



SIMATIC HMI, KTP700 BASIC, BASIC PANEL,
 KEY AND TOUCH OPERATION,
 7" TFT DISPLAY, 65536 COLORS,
 PROFINET INTERFACE,
 CONFIGURATION FROM WINCC BASIC V13/ STEP7
 BASIC V13,
 CONTAINS OPEN SOURCE SW WHICH IS PROVIDED
 FREE OF CHARGE FOR DETAILS SEE CD

Display	
Screen diagonal	7 in
Display width	154.1 mm
Display height	85.9 mm
Number of colors	65536
Resolution (pixels)	
Horizontal image resolution	800
Vertical image resolution	480
Backlighting	
MTBF backlighting (at 25 °C)	20000 h
Dimmable backlight	Yes
Control elements	
Keyboard fonts	
Number of function keys	8
Keys with LED	No
System keys	No
Numeric/alphabetical input	
Numeric keyboard	Yes ; Onscreen keyboard
Alphanumeric keyboard	Yes ; Onscreen keyboard

Touch operation	
Design as touch screen	Yes
Installation type/mounting	
Mounting in portrait format possible	Yes
Mounting in landscape format possible	Yes
Supply voltage	
Type of supply voltage	24 V 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)	230 mA
Inrush current A ² s	0.2 A ² s
Power	
Power consumption, typ.	5.5 W
Processor	
Processor type	
X86	No
ARM	Yes
Memory	
Flash	Yes
RAM	Yes
Usable memory for user data	10 Mbyte
Type of output	
Acoustics	
Buzzer	Yes
Speaker	No
Time of day	
Clock	
Hardware clock (real-time clock)	Yes
Software clock	Yes
Battery-backed	Yes
Synchronizable	Yes
Interfaces	
Number of RS 485 interfaces	0
Number of USB interfaces	1
Number of SD card slots	0
Number of parallel interfaces	0

Number of 20 mA interfaces (TTY)	0
Number of RS 232 interfaces	0
Number of RS 422 interfaces	0
Number of other interfaces	0
With software interfaces	No
Industrial Ethernet	
Number of industrial Ethernet interfaces	1
Industrial Ethernet status LED	2
Protocols	
PROFINET	Yes
Supports protocol for PROFINET IO	No
IRT supported	No
PROFIBUS	No
MPI	No
Protocols (Ethernet)	
TCP/IP	Yes
DHCP	Yes
SNMP	Yes
DCP	Yes
LLDP	Yes
WEB characteristics	
HTTP	No
HTML	No
Further protocols	
CAN	No
MODBUS	Yes ; Modicon (MODBUS TCP/IP)
Supports protocol for EtherNet/IP	Yes
Interrupts/diagnostics/status information	
Diagnostic messages	
Diagnostic information readable	No
EMC	
Emission of radio interference acc. to EN 55 011	
Emission of radio interferences acc. to EN 55 011 (limit class A)	Yes
Emission of radio interference acc. to EN 55 011 (limit class B)	No
Degree and class of protection	
Enclosure Type 4 at the front	Yes
Enclosure type 4x at the front	Yes

Standards, approvals, certificates	
CE mark	Yes
KC approval	Yes
cULus	Yes
RCM (former C-TICK)	Yes
Use in hazardous areas	
ATEX Zone 2	No
ATEX Zone 22	No
cULus Class I Zone 1	No
cULus Class I Zone 2, Division 2	No
FM Class I Division 2	No
Ambient conditions	
maximum permissible angle of inclination without external ventilation	35 °
Operating temperature	
Operation (vertical installation)	
in vertical mounting position, minimum	0 °C
in vertical mounting position, maximum	50 °C
Operation (max. tilt angle)	
at maximum tilt angle, minimum	0 °C
at maximum tilt angle, maximum	40 °C
Operation (vertical installation, portrait format)	
in vertical mounting position, minimum	0 °C
in vertical mounting position, maximum	40 °C
Operation (max. tilt angle, portrait format)	
at maximum tilt angle, minimum	0 °C
at maximum tilt angle, maximum	35 °C
Storage/transport temperature	
Min.	-20 °C
max.	60 °C
Relative humidity	
max. relative humidity	90 %
Operating systems	
Windows CE	No
proprietary	Yes
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other	No
Configuration	
Message indicator	Yes

With alarm logging system (incl. buffer and acknowledgment)	Yes
Process value display (output)	Yes
Process value default (input) possible	Yes
Recipe administration	Yes
Configuration software	
STEP 7 Basic (TIA Portal)	Yes ; via integrated WinCC Basic (TIA Portal)
STEP 7 Professional (TIA Portal)	Yes ; via integrated WinCC Basic (TIA Portal)
WinCC flexible Compact	No
WinCC flexible Standard	No
WinCC flexible Advanced	No
WinCC Basic (TIA Portal)	Yes
WinCC Comfort (TIA Portal)	Yes
WinCC Advanced (TIA Portal)	Yes
WinCC Professional (TIA Portal)	Yes
Languages	
Online languages	
Number of online/runtime languages	10
Languages	
Languages per project	32
Languages	
D	Yes
GB	Yes
F	Yes
I	Yes
E	Yes
Chinese traditional	Yes
Chinese simplified	Yes
DK	Yes
FIN	Yes
GR	Yes
J	Yes
KP/ROK	Yes
NL	Yes
N	Yes
PL	Yes
P	Yes
RUS	Yes
S	Yes
CZ	Yes

TR	Yes
H	Yes
Functionality under WinCC (TIA Portal)	
Libraries	Yes
Number of Visual Basic Scripts	No
Task planner	Yes
time-controlled	No
task-controlled	Yes
Help system	Yes
Number of characters per info text	500
Message system	
Number of alarm classes	32
Number of bit messages	1000
Number of analog messages	25
S7 alarm number procedure	No
System messages HMI	Yes
System messages, other (SIMATIC S7, Sinumerik, Simotion, etc.)	Yes
Number of characters per message	80
Number of process values per message	8
Acknowledgment groups	Yes
Message indicator	Yes
Message buffer	
Number of entries	256
Circulating buffer	Yes
retentive	Yes
maintenance-free	Yes
Recipe administration	
Number of recipes	50
Data records per recipe	100
Entries per data record	100
Size of internal recipe memory	256 kbyte
Recipe memory expandable	No
Variables	
Number of variables per device	800
Number of variables per screen	100
Limit values	Yes
Multiplexing	Yes
Structs	No

Arrays	Yes
Images	
Number of configurable images	250
Permanent window/default	Yes
Global image	Yes
Start screen configurable	Yes
Image selection by PLC	Yes
Image number in the PLC	Yes
Image objects	
Number of objects per image	100
Text fields	Yes
I/O fields	Yes
Graphic I/O fields (graphics list)	Yes
Symbolic I/O fields (text list)	Yes
Date/time fields	Yes
Switch	Yes
Buttons	Yes
Graphic view	Yes
Icons	Yes
Geometric objects	Yes
Complex image objects	
Number of complex objects per screen	10
Alarm view	Yes
Trend view	Yes
User view	Yes
Status/control	No
Sm@rtClient view	No
Recipe view	Yes
f(x) trend view	No
System diagnostics view	Yes
Media Player	No
Bar graphs	Yes
Sliders	No
Pointer instruments	No
Analog/digital clock	No
Lists	
Number of text lists per project	150
Number of entries per text list	100
Number of graphics lists per project	100

Number of entries per graphics list	100
Archiving	
Number of archives per device	2
Number of entries per archive	10000
Message archive	Yes
Process value archive	Yes
Archiving methods	
Sequential archive	Yes
Short-term archive	Yes
Memory location	
Memory card	No
USB memory	Yes
Ethernet	No
Data storage format	
CSV	No
TXT	Yes
RDB	No
Security	
Number of user groups	50
Number of user rights	32
Number of users	50
Password export/import	Yes
SIMATIC Logon	No
Character sets	
Keyboard fonts	
US English	Yes
Character sets	
Tahoma	Yes
Arial	No
Courier New	No
WinCC flexible Standard	Yes
Ideographic languages	Yes
Font size freely scalable	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
Win AC	Yes
SINUMERIK	No
SIMOTION	Yes
Allen Bradley (EtherNet/IP)	Yes
Allen Bradley (DF1)	No
Mitsubishi (MC TCP/IP)	Yes
Mitsubishi (FX)	No
OMRON (FINS TCP)	No
OMRON (LINK/Multilink)	No
Modicon (Modbus TCP/IP)	Yes
Modicon (Modbus)	No
Service tools/configuration aids	
Clean screen	Yes
Touch calibration	Yes
Backup/restore	Yes
Backup/Restore automatically	No
Simulation	Yes
Device switchover	Yes
Delta transfer	No
I/O/Options	
I/O devices	
Printer	No
Multi Media Card	No
SD card	No
USB memory	Yes
Mechanics/material	
Type of housing (front)	
Plastic	Yes
Aluminum	No
Stainless steel	No
Dimensions	
Width of the housing front	214 mm
Height of housing front	158 mm
Mounting cutout (W x H x D)	

Mounting cutout, width	197 mm
Mounting cutout, height	141 mm
Device depth	39 mm
Weights	
Weight without packaging	780 g
Weight incl. packaging	990 g
Status	Apr 14, 2014