

SIMATIC HMI SMART 700 IE, SMART PANEL,
TOUCH OPERATION,
7" WIDESCREEN TFT DISPLAY,
65536 COLORS, RS422/485 INTERFACE,
ETHERNET(RJ45) INTERFACE,
WITH CE CERTIFICATE,
CONFIGURATION FROM WINCC FLEXIBLE 2008 SP4
CHINA;
CONTAINS OPEN SOURCE SW WHICH IS PROVIDED
FREE OF CHARGE FOR DETAILS SEE CD

Display	
Design of display	TFT
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)	40000 h ; Half brightness life time (25°C), Max.
Control elements	
Keyboard	
Number of function keys	0
Numeric/alphabetical input	Yes (on-screen keyboard) / Yes (on-screen keyboard)
Numeric keyboard	Yes
Alphanumeric keyboard	Yes
Touch operation	
Design as touch screen	Yes
Installation type/mounting	
Mounting in portrait format possible	No
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)	0.35 A
Inrush current A ² s	0.5 A ² s
Processor	
Processor type	ARM
X86	No
ARM	Yes
Memory	
Flash	Yes
RAM	Yes
Usable memory for user data	2048 kbyte
Type of output	
Acoustics	Sound signal
Buzzer	Yes
Time of day	
Clock	
Hardware clock (real-time clock)	No
Software clock	Yes
Battery-backed	No
Synchronizable	Yes ; do the synchronization via PLC-jobs
Interfaces	
Number of RS 485 interfaces	1
Number of USB interfaces	0
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	1
Number of other interfaces	0
Industrial Ethernet	
Number of industrial Ethernet interfaces	1
Industrial Ethernet status LED	2
Protocols	
PROFINET	No
PROFIBUS	No
MPI	No
Protocols (Ethernet)	

TCP/IP	Yes
DHCP	Yes
SNMP	No
DCP	No
LLDP	No
Further protocols	
MODBUS	Yes
Degree and class of protection	
IP (at the front)	IP65
IP (rear)	IP20
Standards, approvals, certificates	
CE mark	Yes
Marine approval	
Germanischer Lloyd (GL)	No
American Bureau of Shipping (ABS)	No
Bureau Veritas (BV)	No
Det Norske Veritas (DNV)	No
Lloyds Register of Shipping (LRS)	No
Nippon Kaiji Kyokai (Class NK)	No
Polski Rejestr Statkow (PRS)	No
Ambient conditions	
Mounting position	vertical
maximum permissible angle of inclination without external ventilation	35 °
Operating temperature	
Operation (vertical installation)	0 °C to +50 °C
in vertical mounting position, minimum	0 °C
in vertical mounting position, maximum	50 °C
Operation (max. tilt angle)	0 °C to +40 °C
at maximum tilt angle, minimum	0 °C
at maximum tilt angle, maximum	40 °C
Relative humidity	
Operation, max.	90 %
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	
WinCC flexible Standard	Yes ; WinCC flexible 2008 SP4 CHINA
Languages	
Online languages	
Number of online/runtime languages	5
Languages	
Languages per project	32
Languages	D, GB, F, I, E, CHN "traditional", CHN "simplified", DK, FIN, GR, J, KP / ROK, NL, N, PL, P, RUS, S, CZ / SK, TR, H
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
Task planner	Yes
time-controlled	No
task-controlled	Yes
Help system	Yes
Number of characters per info text	320
Message system	
Number of alarm classes	32

Number of bit messages	200
Number of analog messages	15
System messages HMI	Yes
Number of characters per message	80
Number of process values per message	8
Message indicator	Yes
Message buffer	Ring buffer (n x 256 entries), retentive, maintenance-free
Number of entries	256
Circulating buffer	Yes
retentive	Yes
Recipe administration	
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	800
Number of variables per screen	100
Limit values	Yes
Multiplexing	Yes
Structs	No
Arrays	Yes
Images	
Number of configurable images	100
Permanent window/default	Yes ; No permanent window can be configured
Global image	Yes
Start screen configurable	Yes
Image selection by PLC	Yes
Image number in the PLC	Yes
Image objects	
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
Switches	Yes
Buttons	Yes
Graphic view	Yes

Complex image objects	
Number of complex objects per screen	5
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	No
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 graphics lists per project	100
Security	
Number of user groups	50
Number of user rights	32
Number of users	50
Password export/import	No
Character sets	
Keyboard	US American (English)
US American (English)	Yes
Character sets	Tahoma, WinCC flexible Standard, symbol languages, all freely scalable
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	No
S7-200	Yes
S7-300/400	No
LOGO!	Yes
Win AC	No
SINUMERIK	No
SIMOTION	No
Allen Bradley (DF1)	No
Mitsubishi (FX)	Yes
OMRON (LINK/Multilink)	Yes
Modicon (Modbus)	Yes
Service tools/configuration aids	
Clean screen	Yes
Touch calibration	Yes
Backup/restore	Yes
Simulation	Yes
Device switchover	Yes
Delta transfer	Yes
I/O / Options	
I/O devices	none
Printer	No
MultiMediaCard	No
SD card	No
USB memory	No
Mechanics/material	
Type of housing (front)	plastic
plastic	Yes
aluminum	No
Dimensions	
Width of the housing front	213 mm
Height of housing front	159 mm
Device depth	40.5 mm
Status	Sep 29, 2014