



SIMATIC OPERATOR PANEL OP 73 3" LC DISPLAY, BACKLIT, WITH GRAPHICS CAPABILITY, MPI-/PROFIBUS-DP INTERFACE, UP TO 1.5MB, CONFIGURABLE WINCC FLEXIBLE 2004 COMPACT HSP UPWARDS; CONTAINS OPEN-SOURCE-SW, WHICH IS PROVIDED FREE OF CHARGE. FOR DETAILS SEE ENCLOSED CD

General information	
customer-specific configuration	No
Display	
Design of display	STN
Screen diagonal	3 in
Size	3"
Display type	STN, black/white
Color type	Black/white
Resolution (pixels)	
horizontal image resolution	160
vertical image resolution	48
Resolution (WxH in pixel)	160 x 48
Backlighting	
MTBF backlighting (at 25 °C)	about 100,000 hours
Control elements	
Control elements	Membrane keyboard
Operating options	Keys
Function keys, programmable	4 function keys
Connection for mouse/keyboard/barcode reader	- / - / -

Keyboard fonts	
Keys with LED	Yes
user-definable label membrane keys	No
Number of function keys with LEDs	0
Numeric/alphabetical input	Yes / Yes
hexadecimal keyboard	Yes
Multi-key operation	Yes
Touch operation	
Design as touch screen	No
Supply voltage	
Type of supply voltage	DC
Input current	
Rated current	0.1 A
Inrush current A <sup>2</sup> s	0.5 A <sup>2</sup> s
Processor	
Processor	ARM
Processor type	ARM
Memory	
Type	Flash
usable memory for user data	256 KB usable memory for user data
Time of day	
Clock	
Type	Software clock, no battery backup
Hardware clock (real-time clock)	No
Software clock	Yes
battery-backed	No
synchronizable	No
Interfaces	
Interfaces	1 x RS485 (max. 1.5 Mbit/s)
Number of RS 485 interfaces	1
Transmission rate, max.	1.5 Mbit/s
Degree and class of protection	
Front	IP65, NEMA 4x (when installed)
IP (at the front)	IP65
NEMA	NEMA 4x
Rear	IP20
IP (rear)	IP20
Standards, approvals, certificates	

<b>Certifications</b>	CE, GL, ABS, BV, DNV, LRS, UL, CSA, cULus, C-TICK, NEMA 4x
<b>cULus</b>	Yes
<b>EAC (former Gost-R)</b>	No
<b>Suitable for safety functions</b>	No
<b>Marine approval</b>	
<b>Germanischer Lloyd (GL)</b>	Yes
<b>American Bureau of Shipping (ABS)</b>	Yes
<b>Bureau Veritas (BV)</b>	Yes
<b>Det Norske Veritas (DNV)</b>	Yes
<b>Lloyds Register of Shipping (LRS)</b>	Yes
<b>Nippon Kaiji Kyokai (Class NK)</b>	Yes
<b>Polski Rejestr Statkow (PRS)</b>	No
<b>Use in hazardous areas</b>	
<b>EX zone 2</b>	No
<b>EX zone 22</b>	No
<b>FM Class I Division 2</b>	No
<b>Ambient conditions</b>	
<b>Mounting position</b>	vertical
<b>maximum permissible angle of inclination without external ventilation</b>	+/- 80 °
<b>Storage/transport temperature</b>	
<b>Transport, storage</b>	-20 °C to +60 °C
<b>Relative humidity</b>	
<b>Operation, max.</b>	90 %
<b>Operating systems</b>	
<b>Operating system</b>	LINUX
<b>Configuration</b>	
<b>Configuration software</b>	
<b>STEP 7 Basic (TIA Portal)</b>	No
<b>STEP 7 Professional (TIA Portal)</b>	No
<b>WinCC flexible Compact</b>	Yes
<b>WinCC flexible Standard</b>	Yes
<b>WinCC flexible Advanced</b>	Yes
<b>WinCC Basic (TIA Portal)</b>	No
<b>WinCC Comfort (TIA Portal)</b>	Yes
<b>WinCC Advanced (TIA Portal)</b>	Yes
<b>WinCC Professional (TIA Portal)</b>	Yes
<b>Configuration tool</b>	WinCC flexible Compact Version 2004 SP 1 or higher; HSP OP 73 (to be ordered separately)

<b>2. Configuration kit</b>	WinCC flexible Compact
<b>Version</b>	Version 2004 SP 1; HSP OP 73
<b>Configuration tool</b>	WinCC flexible
<b>Type</b>	Compact
<b>Languages</b>	
<b>Online languages</b>	
<b>Number of online/runtime languages</b>	5
<b>Project languages</b>	
<b>Languages per project</b>	32
<b>Functionality under WinCC (TIA Portal)</b>	
<b>Libraries</b>	Yes
<b>Task planner</b>	Yes
<b>Help system</b>	Yes
<b>Number of characters per info text</b>	320
<b>Number of tooltips</b>	0
<b>Message system</b>	
<b>Number of alarm classes</b>	32
<b>Number of messages</b>	500
<b>Bit messages</b>	Yes
<b>Analog messages</b>	Yes
<b>Number of bit messages</b>	500
<b>Number of analog messages</b>	0
<b>Telegram message procedure Alarm S</b>	No
<b>System messages HMI</b>	Yes
<b>System messages PLC</b>	Yes
<b>System messages, other (SIMATIC S7, Sinumerik, Simotion, etc.)</b>	No
<b>Message length (in characters)</b>	80
<b>Number of process values per message</b>	8
<b>Acknowledgment groups</b>	Yes
<b>Message indicator</b>	No
<b>acoustic feedback</b>	No
<b>First/last value</b>	Yes
<b>Variables</b>	
<b>Number of variables per device</b>	1000
<b>Number of variables per screen</b>	20
<b>Limit values</b>	Yes
<b>Multiplexing</b>	Yes
<b>Structures</b>	No

Images	
Number of configurable images	500
Permanent window/default	Yes
Start screen configurable	Yes
Image selection by PLC	Yes
Image number in the PLC	Yes
Image objects	
Text objects	1,000 text elements
I/O fields per image	20
Index of screen context	No
Return	Yes
Graphics object	Bit maps, icons, icon (full-screen)
Icons	1
Icon (full screen)	1
Complex image objects	
Status/control	Not possible
dynamic objects	Bar graphs
Number of bars per chart	5
Limit value lines	Yes
Attributes for dynamic objects	
Color change	No
X/Y movement	No
Hide	Yes
Angle of rotation	No
Lists	
Number of text lists per project	150
Number of graphics lists per project	0
Security	
Number of user groups	50
Number of user rights	32
Password export/import	Yes
Transfer (upload/download)	
Transfer of configuration	MPI/PROFIBUS DP, serial, automatic transfer recognition
Process coupling	
Connection to controller	S7-200, S7- 300/400, Win AC see section on "System interfaces"
S7-200	Yes
PPI (point-to-point)	Yes
PPI network	Yes

<b>MPI</b>	Yes
<b>PROFIBUS DP</b>	Yes
<b>S7-300/400</b>	Yes
<b>MPI</b>	Yes
<b>PROFIBUS DP</b>	Yes
<b>PROFINET</b>	No
<b>S5</b>	No
<b>serial</b>	No
<b>PROFIBUS DP</b>	No
<b>TI 505</b>	No
<b>Allen Bradley (DF1)</b>	No
<b>Allen Bradley (DF485)</b>	No
<b>Mitsubishi (FX)</b>	No
<b>Mitsubishi (MP4)</b>	No
<b>Telemecanique (ADJUST)</b>	No
<b>Telemecanique (Uni-Telway)</b>	No
<b>OMRON (LINK/Multilink)</b>	No
<b>Modicon (Modbus)</b>	No
<b>GE-Fanuc (SNP)</b>	No
<b>Functions</b>	
<b>Key repeat</b>	Yes
<b>TAB sequence</b>	Yes
<b>Calculating functions</b>	Yes
<b>Animate</b>	No
<b>Menu tree editor</b>	No
<b>Unit switchover</b>	No
<b>Service tools/configuration aids</b>	
<b>Clean screen</b>	No
<b>Touch calibration</b>	No
<b>Backup/Restore manually</b>	Yes
<b>Simulation</b>	No
<b>Device switchover</b>	Yes
<b>Delta transfer</b>	No
<b>Monitoring function for battery and memory</b>	No
<b>Trace (operation archive)</b>	No
<b>Expandability/openness</b>	
<b>Open Platform Program</b>	No
<b>Dimensions</b>	
<b>Front of enclosure (W x H)</b>	154 mm x 84 mm

<b>Mounting cutout/device depth (W x H / D)</b>	138 mm x 68 mm / 28.5 mm device depth
<b>Weights</b>	
<b>Weight (without packaging)</b>	0.25 kg
<b>Other</b>	
<b>free hotline</b>	Yes
<b>Warranty period</b>	1 a
Status	Jul 30, 2014