

*** spare part *** SIMATIC Operator Panel OP 73 3 LC display, graphics-capable, backlit, MPI/PROFIBUS DP interface, to 1.5 MB, configurable from WinCC flexible 2004 Compact HSP contains open source software, which is provided free of charge. See enclosed CD

General information	
Product type designation	OP 73
Customer-specific configuration	No
Display	
Design of display	STN
Screen diagonal	3 in
Color display	No
Number of colors	2; Black/white
Resolution (pixels)	
<ul style="list-style-type: none"> • Horizontal image resolution • Vertical image resolution 	160 pixel 48 pixel
Backlighting	
<ul style="list-style-type: none"> • MTBF backlighting (at 25 °C) 	100 000 h
Control elements	
Control elements	Membrane keyboard
Keyboard fonts	
<ul style="list-style-type: none"> • Membrane keyboard <ul style="list-style-type: none"> — user-definable label membrane keys • Function keys <ul style="list-style-type: none"> — Number of function keys — Number of function keys with LEDs • System keys <ul style="list-style-type: none"> — Number of system keys • Numeric keyboard • alphanumeric keyboard • hexadecimal keyboard • Multi-key operation 	No 4 0 Yes 8 Yes Yes Yes Yes
Touch operation	
<ul style="list-style-type: none"> • Design as touch screen 	No
Connection type	
<ul style="list-style-type: none"> • Type of connection for mouse/keyboard/barcode reader 	- / - / -
Installation type/mounting	
Mounting position	vertical
maximum permissible angle of inclination without external ventilation	80°
Supply voltage	
Type of supply voltage	DC
Input current	
Current consumption (rated value)	0.1 A
Starting current inrush I ² t	0.5 A ² ·s
Processor	
Processor type	ARM
Memory	
Type of memory	Flash
Memory available for user data	256 kbyte
Time of day	
Clock	

<ul style="list-style-type: none"> • Type • retentive • synchronizable 	Software clock, no battery backup No No
Interfaces	
Interfaces/bus type	1x RS 485 (max. 1.5 Mbit/s)
Number of industrial Ethernet interfaces	0
Number of RS 485 interfaces	1
Number of RS 422 interfaces	0
Number of USB interfaces	0
Protocols	
Supports protocol for PROFINET IO	No
PROFIsafe	No
PROFIBUS	Yes
EtherNet/IP	No
Protocols (Ethernet)	
<ul style="list-style-type: none"> • TCP/IP 	No
Further protocols	
<ul style="list-style-type: none"> • MODBUS • other bus systems 	No Yes
Degree and class of protection	
IP (at the front)	IP65
IP (rear)	IP20
NEMA (front)	NEMA 4x (when installed)
Standards, approvals, certificates	
Certificate of suitability	CE, GL, ABS, BV, DNV, LRS, UL, CSA, cULus, C-TICK, NEMA 4x
cULus	Yes
EAC (formerly Gost-R)	No
Suitable for safety functions	No
Use in hazardous areas	
<ul style="list-style-type: none"> • ATEX Zone 2 • ATEX Zone 22 • FM Class I Division 2 	No No No
Marine approval	
<ul style="list-style-type: none"> • Germanischer Lloyd (GL) • American Bureau of Shipping (ABS) • Bureau Veritas (BV) • Det Norske Veritas (DNV) • Lloyds Register of Shipping (LRS) • Nippon Kaiji Kyokai (Class NK) • Polski Rejestr Statkow (PRS) 	Yes Yes Yes Yes Yes Yes No
Ambient conditions	
Ambient temperature during operation	
<ul style="list-style-type: none"> • min. • max. 	0 °C 50 °C
Ambient temperature during storage/transportation	
<ul style="list-style-type: none"> • min. • max. 	-20 °C 60 °C
Relative humidity	
<ul style="list-style-type: none"> • Operation, max. 	90 %
Operating systems	
pre-installed operating system	LINUX
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	No
Configuration software	
<ul style="list-style-type: none"> • Configuration tool 	WinCC flexible Compact Version 2004 SP 1 or higher; HSP OP 73 (to

be ordered separately)

• STEP 7 Basic (TIA Portal)	No
• STEP 7 Professional (TIA Portal)	No
• WinCC flexible Compact	Yes
• WinCC flexible Standard	Yes
• WinCC flexible Advanced	Yes
• WinCC Basic (TIA Portal)	No
• WinCC Comfort (TIA Portal)	Yes
• WinCC Advanced (TIA Portal)	Yes
• WinCC Professional (TIA Portal)	Yes

Languages

Online languages	
• Number of online/runtime languages	5

Project languages	
• Languages per project	32

Functionality under WinCC (TIA Portal)

Libraries	Yes
Task planner	Yes
Help system	Yes
• Number of characters per info text	320
• Number of tooltips	0

Message system	
• Number of alarm classes	32
• Number of messages	500
• Bit messages	Yes
— Number of bit messages	500
• Analog messages	Yes
— Number of analog messages	0
• Telegram message procedure Alarm S	No
• System messages HMI	Yes
• System messages PLC	Yes
• System event, more (SIMATIC S7, SINUMERIK, SIMOTION, ...)	No
• Number of characters per message	80
• Number of process values per message	8
• Acknowledgment groups	Yes
• Message indicator	No
• acoustic feedback	No
• First/last value	Yes

Variables	
• Number of variables per device	1 000
• Number of variables per screen	20
• Limit values	Yes
• Multiplexing	Yes
• Structures	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
• Number of 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	
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<ul style="list-style-type: none"> • Status/control • dynamic objects • Bar graphs <ul style="list-style-type: none"> — Number of bars per chart • Limit value lines 	<p>Not possible</p> <p>Bar graphs</p> <p>5</p> <p>Yes</p>
Attributes for dynamic objects	
<ul style="list-style-type: none"> • Color change • X/Y movement • Hide • Angle of rotation 	<p>No</p> <p>No</p> <p>Yes</p> <p>No</p>
Lists	
<ul style="list-style-type: none"> • Number of text lists per project • Number of graphics lists per project 	<p>150</p> <p>0</p>
Security	
<ul style="list-style-type: none"> • Number of user groups • Number of user rights • Password export/import 	<p>50</p> <p>32</p> <p>Yes</p>
Transfer (upload/download)	
<ul style="list-style-type: none"> • Transfer of configuration 	MPI/PROFIBUS DP, serial, automatic transfer recognition
Process coupling	
<ul style="list-style-type: none"> • Connection to controller • S7-200 <ul style="list-style-type: none"> — PPI (point-to-point) — PPI network — MPI — PROFIBUS DP • S7-300/400 <ul style="list-style-type: none"> — MPI — PROFIBUS DP — PROFINET • S5 <ul style="list-style-type: none"> — serial — PROFIBUS DP • TI 505 • Allen Bradley (DF1) • Allen Bradley (DF485) • Mitsubishi (FX) • Mitsubishi (MP4) • Telemecanique (ADJUST) • Telemecanique (Uni-Telway) • OMRON (LINK/Multilink) • Modicon (Modbus) • GE-Fanuc (SNP) 	<p>S7-200, S7- 300/400, Win AC see section on "System interfaces"</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>No</p> <p>No</p> <p>No</p> <p>No</p> <p>No</p> <p>No</p> <p>No</p> <p>No</p> <p>No</p> <p>No</p> <p>No</p> <p>No</p> <p>No</p> <p>No</p> <p>No</p>
Functions	
<ul style="list-style-type: none"> • Key repeat • TAB sequence • Calculating functions • Animate • Menu tree editor • Unit switchover 	<p>Yes</p> <p>Yes</p> <p>Yes</p> <p>No</p> <p>No</p> <p>No</p>
Service tools/configuration aids	
<ul style="list-style-type: none"> • Clean screen • Touch calibration • Backup/Restore manually • Simulation • Device switchover • Delta transfer • Monitoring function for battery and memory • Trace (operation archive) 	<p>No</p> <p>No</p> <p>Yes</p> <p>No</p> <p>Yes</p> <p>No</p> <p>No</p> <p>No</p>
Expandability/openness	

• Open Platform Program	No
Peripherals/Options	
Additional software components loadable	Yes
Dimensions	
Width of the housing front	154 mm
Height of housing front	84 mm
Mounting cutout, width	138 mm
Mounting cutout, height	68 mm
Overall depth	28.5 mm
Weights	
Weight (without packaging)	0.25 kg
Other	
free hotline	Yes
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