

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)	
• Horizontal image resolution	160 Pixel
• Vertical image resolution	48 Pixel

Backlighting	
• MTBF backlighting (at 25 °C)	100 000 h

Control elements

Control elements	Membrane keyboard
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Keyboard fonts

• Membrane keyboard	
— user-definable label membrane keys	No
• Function keys	
— Number of function keys	4
— Number of function keys with LEDs	0
• System keys	Yes
— Number of system keys	8
• Numeric keyboard	Yes
• alphanumeric keyboard	Yes
• hexadecimal keyboard	Yes
• Multi-key operation	Yes

Touch operation

• Design as touch screen	No
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Connection type

• Type of connection for mouse/keyboard/barcode reader	- / - / -
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Installation type/mounting

Mounting position	vertical
maximum permissible angle of inclination without external ventilation	80°

Supply voltage

Type of supply voltage	DC
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Input current

Current consumption (rated value)	0.1 A
Starting current inrush I ² t	0.5 A ² ·s

Processor

Processor type	ARM
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Memory

Type of memory	Flash
Memory available for user data	256 kbyte

Time of day

Clock	
• Type	Software clock, no battery backup
• retentive	No
• synchronizable	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

Protocols (Ethernet)	
• TCP/IP	No

Further protocols	
• EtherNet/IP	No
• MODBUS	No
• other bus systems	Yes

Degree and class of protection

IP (at the front)	IP65
NEMA (front)	NEMA 4x (when installed)
IP (rear)	IP20

Standards, approvals, certificates

Certifications	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	
• ATEX Zone 2	No
• ATEX Zone 22	No
• FM Class I Division 2	No
Marine approval	
• Germanischer Lloyd (GL)	Yes
• American Bureau of Shipping (ABS)	Yes
• Bureau Veritas (BV)	Yes
• Det Norske Veritas (DNV)	Yes
• Lloyds Register of Shipping (LRS)	Yes
• Nippon Kaiji Kyokai (Class NK)	Yes
• Polski Rejestr Statkow (PRS)	No
Ambient conditions	
Ambient temperature during operation	
• min.	0 °C
• max.	50 °C
Ambient temperature during storage/transportation	
• min.	-20 °C
• max.	60 °C
Relative humidity	
• Operation, max.	90 %
Operating systems	
pre-installed operating system	LINUX
Configuration	
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	
• 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
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Project languages

• Languages per project	32
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Functionality under WinCC (TIA Portal)

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

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

• Number of variables per device	1 000
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• Number of variables per screen	20
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• Limit values	Yes
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• Multiplexing	Yes
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• Structures	No
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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	
• Status/control	Not possible
• dynamic objects	Bar graphs
• 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
— MPI	Yes
— PROFIBUS DP	Yes
• S7-300/400	Yes

— MPI	Yes
— PROFIBUS DP	Yes
— PROFINET	No
• S5	No
— serial	No
— PROFIBUS DP	No
• TI 505	No
• Allen Bradley (DF1)	No
• Allen Bradley (DF485)	No
• Mitsubishi (FX)	No
• Mitsubishi (MP4)	No
• Telemecanique (ADJUST)	No
• Telemecanique (Uni-Telway)	No
• OMRON (LINK/Multilink)	No
• Modicon (Modbus)	No
• GE-Fanuc (SNP)	No
Functions	
• Key repeat	Yes
• TAB sequence	Yes
• Calculating functions	Yes
• Animate	No
• Menu tree editor	No
• Unit switchover	No
Service tools/configuration aids	
• Clean screen	No
• Touch calibration	No
• Backup/Restore manually	Yes
• Simulation	No
• Device switchover	Yes
• Delta transfer	No
• Monitoring function for battery and memory	No
• Trace (operation archive)	No
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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