

*** spare part *** SIMATIC Operator Panel OP 73micro for SIMATIC S7-200 3 LC display, graphics-capable, backlit configurable from WinCC flexible 2004 Micro HSP contains open source software, which is provided free of charge. See enclosed CD

General information	
Product type designation	OP 73micro
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
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
Connection type	
• 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	128 kbyte
Time of day	
Clock	
• Type	Software clock, no battery backup
• retentive	No

• synchronizable	No
Interfaces	
Interfaces/bus type	1x RS 485 (max. 187.5 kbit/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)	
• TCP/IP	No
Further protocols	
• MODBUS	No
• other bus systems	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	
• 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 / header	
Message indicator	Yes
Alarm system (incl. buffer and acknowledgment)	Yes
Process value display (output)	Yes
Process value default (input) possible	Yes
Recipe management	Yes
Configuration software	
• Configuration tool	WinCC flexible Micro Version 2004 SP1, HSP or higher (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)	No
• WinCC Advanced (TIA Portal)	No
• WinCC Professional (TIA Portal)	No

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	250
• Bit messages	Yes
— Number of bit messages	250
• Analog messages	Yes
— Number of analog messages	5
• 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
• Message indicator	Yes
• acoustic feedback	No
• First/last value	Yes
Variables	
• Number of variables per device	500
• Number of variables per screen	20
• Limit values	Yes
• Multiplexing	Yes
• Structures	Yes
Images	
• Number of configurable images	250
• Permanent window/default	Yes
• Start screen configurable	Yes
• Image selection by PLC	No
• Image number in the PLC	No
Image objects	
• Text objects	1 000 text elements
• Number of I/O fields per image	20
• Number of date/time fields	0
• Index of screen context	No
• Return	Yes
• Graphics object	Bit maps, icons, icon (full-screen)
— Icons	250
— Icon (full screen)	25
Complex image objects	
• Status/control	Not possible
• dynamic objects	Bar graphs
— Number of curve diagrams per image	0
• Bar graphs	
— Number of bars per chart	5

• Sliders	
— Number of slides per image	0
• Pointer instruments	
— Number of analog indicators per image	0
• Limit value lines	Yes
• Number of alphanumerical fields	0
— alphanumeric fields per image	0
• Number of numerical fields	0
— numerical fields per image	0
• Number of password fields	0
• Number of visible switches per project	0
— visible switches per image	0
— hidden switches per image	0
• Number of status switches per project	0
— Number of status switches per image	0
• Number of selector switches per project	0
— Selector switches per image	0
• Number of decade switches per project	0
— Decade switches per image	0
• Number of signal lamps per project	0
— Signal lamps per image	0
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	1
• Number of users	1
• Password export/import	Yes
Transfer (upload/download)	
• Transfer of configuration	serial
Process coupling	
• Connection to controller	for S7-200, see section on "System interfaces"
• S7-200	Yes
— PPI (point-to-point)	Yes
— PPI network	Yes
— MPI	Yes
— PROFIBUS DP	No
• S7-300/400	No
— MPI	No
— PROFIBUS DP	No
— 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	
SIMATIC HMI MM memory card: Multi Media Card	No
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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