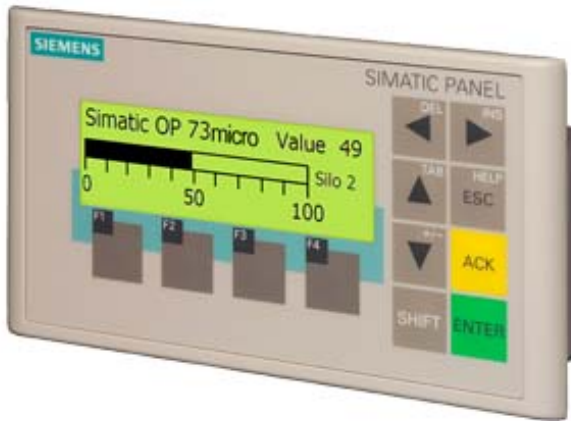


SIMATIC OPERATOR PANEL OP 73MICRO FOR SIMATIC S7-200  
 3" LC DISPLAY, BACKLIT WITH GRAPHICS CAPABILITY  
 CONFIGURABLE WINCC FLEXIBLE 2004 MICRO HSP UPWARDS;  
 CONTAINS OPEN-SOURCE-SW, WHICH IS PROVIDED FREE OF  
 CHARGE. FOR DETAILS SEE ENCLOSED CD



General information	
Customer-specific configuration	No
Display	
Design of display	STN
Screen diagonal	3 in
Number of grayscales	0
Number of colors	2
Color type	Black/white
Resolution (pixels)	
• Resolution (WxH in pixel)	160 x 48
• 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
• Numeric/alphabetical input	Yes / Yes
— hexadecimal keyboard	Yes
• Multi-key operation	Yes
<b>Touch operation</b>	
• Design as touch screen	No
<b>Connection type</b>	
• Connection for mouse/keyboard/barcode reader	- / - / -
<b>Installation type/mounting</b>	
Mounting position	vertical
maximum permissible angle of inclination without external ventilation	80°
<b>Supply voltage</b>	
Type of supply voltage	DC
<b>Input current</b>	
Current consumption (rated value)	0.1 A
Starting current inrush I <sup>2</sup> t	0.5 A <sup>2</sup> ·s
<b>Processor</b>	
Processor type	ARM
<b>Memory</b>	
Type of memory	Flash
Memory available for user data	128 kbyte
<b>Time of day</b>	
<b>Clock</b>	
• Type	Software clock, no battery backup
• retentive	No
• synchronizable	No
<b>Interfaces</b>	
Interfaces/bus type	1 x RS485 (max. 187.5 kbit/s)
Number of RS 485 interfaces	1
• Transmission rate, max.	187.5 kbit/s
<b>Protocols</b>	
Supports protocol for PROFINET IO	No
PROFIsafe	No

PROFIBUS	Yes
<b>Protocols (Ethernet)</b>	
• TCP/IP	No
<b>Further protocols</b>	
• EtherNet/IP	No
• MODBUS	No
• other bus systems	Yes
<b>Degree and class of protection</b>	
Front	IP65, NEMA 4x (when installed)
IP (at the front)	IP65
IP (rear)	IP20
<b>Standards, approvals, certificates</b>	
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
<b>Marine approval</b>	
• 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
<b>Use in hazardous areas</b>	
• FM Class I Division 2	No
• EX zone 2	No
• EX zone 22	No
<b>Ambient conditions</b>	
<b>Ambient temperature during operation</b>	
• min.	0 °C
• max.	50 °C
<b>Ambient temperature during storage/transportation</b>	
• min.	-20 °C
• max.	60 °C
<b>Relative humidity</b>	
• Operation, max.	90 %
<b>Operating systems</b>	
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	Yes
<b>Configuration software</b>	
• 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
• Configuration tool	WinCC flexible Micro Version 2004 SP1, HSP or higher (to be ordered separately)

## Languages

<b>Online languages</b>	
• Number of online/runtime languages	5
<b>Project languages</b>	
• 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
<b>Message system</b>	
• 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 messages, other (SIMATIC S7, Sinumerik, Simotion, etc.)	No

• Number of characters per message	80
• Number of process values per message	8
• Message indicator	Yes
• acoustic feedback	No
• First/last value	Yes
<b>Variables</b>	
• Number of variables per device	500
• Number of variables per screen	20
• Limit values	Yes
• Multiplexing	Yes
• Structures	Yes
<b>Images</b>	
• Number of configurable images	250
• Permanent window/default	Yes
• Start screen configurable	Yes
• Image selection by PLC	No
• Image number in the PLC	No
<b>Image objects</b>	
• 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
<b>Complex image objects</b>	
• 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
— alphanumerical 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
<b>Attributes for dynamic objects</b>	
• Color change	No
• X/Y movement	No
• Hide	Yes
• Angle of rotation	No
<b>Lists</b>	
• Number of text lists per project	150
• Number of graphics lists per project	0
<b>Security</b>	
• Number of user groups	1
• Number of users	1
• Password export/import	Yes
<b>Transfer (upload/download)</b>	
• Transfer of configuration	serial
<b>Process coupling</b>	
• 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
<b>Functions</b>	
• Key repeat	Yes
• TAB sequence	Yes
• Calculating functions	Yes
• Animate	No
• Menu tree editor	No
• Unit switchover	No
<b>Service tools/configuration aids</b>	
• 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
<b>Expandability/openness</b>	
• Open Platform Program	No
<b>Peripherals/Options</b>	
<b>Peripherals</b>	
• SIMATIC HMI MM memory card: Multi Media Card	No
Additional software components loadable	Yes
<b>Dimensions</b>	
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
<b>Weights</b>	
Weight (without packaging)	0.25 kg

Other

free hotline Yes

Warranty period 1 y

**last modified:** 09/10/2016