

\*\*\*SPARE PART\*\*\* SIPLUS HMI OP73 FOR MEDIAL STRESS WITH CONFORMAL COATING BASED ON 6AV6641-0AA11-0AX0 . 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

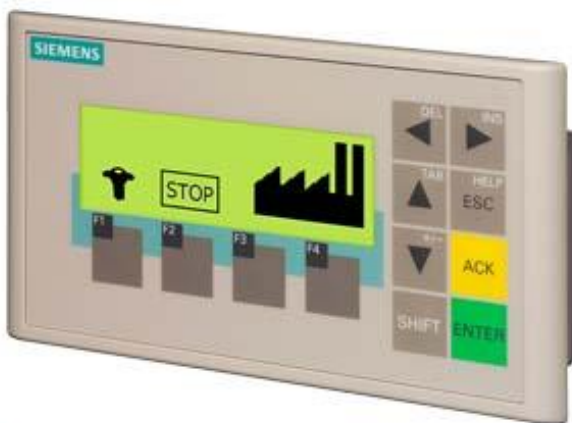


Figure similar

General information	
Customer-specific configuration	No
Display	
Design of display	STN
Screen diagonal	3 in
Number of colors	2
Color type	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
• 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	256 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. 1.5 Mbit/s)
Number of RS 485 interfaces	1
• Transmission rate, max.	1.5 Mbit/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
IP (at the front)	IP65
IP (rear)	IP20
<b>Standards, approvals, certificates</b>	
KC approval	Yes
EAC (formerly Gost-R)	Yes
Suitable for safety functions	No
<b>Use in hazardous areas</b>	
• 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.	100 %; Relative humidity, incl. condensation / frost permitted (no commissioning under condensation conditions)
<b>Extended ambient conditions</b>	
• relative to ambient temperature-atmospheric pressure-installation altitude	Tmin ... Tmax at 1080 hPa ... 795 hPa (-1000 m ... +2000 m) // Tmin ... (Tmax - 10K) at 795 hPa ... 658 hPa (+2000 m ... +3500 m) // Tmin ... (Tmax - 20K) at 658 hPa ... 540 hPa (+3500 m ... +5000 m)
<b>Relative humidity</b>	
— With condensation, tested in accordance with IEC 60068-2-38, max.	100 %; Relative humidity, incl. condensation / frost permitted (no commissioning under condensation conditions)
<b>Resistance</b>	
— against biologically active substances / conformity with EN 60721-3-3	Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request
— against chemically active substances / conformity with EN 60721-3-3	Yes; Class 3C4 incl. salt spray. The supplied connector covers must remain on the unused interfaces during operation!

— against mechanically active substances /  
conformity with EN 60721-3-3

Yes; Class 3S4 incl. sand, dust. The supplied connector covers  
must remain on the unused interfaces during operation!

## 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)

## 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 messages, other (SIMATIC S7, Sinumerik, Simotion, etc.) No

- Number of characters per message 80

- Number of process values per message 8

- Acknowledgment groups Yes

— Number of acknowledgement groups Yes

- Message indicator No

• acoustic feedback	No
• First/last value	Yes
<b>Variables</b>	
• Number of variables per device	1 000
• Number of variables per screen	20
• Limit values	Yes
• Multiplexing	Yes
• Structures	No
<b>Images</b>	
• Number of configurable images	500
• Permanent window/default	Yes
• Start screen configurable	Yes
• Image selection by PLC	Yes
• Image number in the PLC	Yes
<b>Image objects</b>	
• 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
<b>Complex image objects</b>	
• Status/control	Not possible
• dynamic objects	Bar graphs
• Bar graphs	
— Number of bars per chart	5
• Limit value lines	Yes
<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	50
• Number of user rights	32
• Password export/import	Yes
<b>Transfer (upload/download)</b>	

• Transfer of configuration	MPI/PROFIBUS DP, serial, automatic transfer recognition
<b>Process coupling</b>	
• 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
<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

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
Overall depth	28.5 mm
Weights	
Weight (without packaging)	0.25 kg
Other	
free hotline	Yes
Warranty period	1 y
<b>last modified:</b>	05/31/2017