SIEMENS

SIMATIC OP27/OP37 Operator Panels — compact, smart and powerful

Product Brief

Equipped with graphic displays, the Operator Panels allow easy operation and monitoring in the production area. Critical process operation can be monitored easily by graphical representations such as imported pictures, bargraphs and trends. The embedded alarm system provides immediate process information either on the screen or through a printer.

With SIMATIC® ProTool® – the Windows® based configuration software you can easily build your own application.

Operator Panels in different versions:

- **OP27** STN display monochrome or color
- **OP37** STN or TFT, optional with floppy drive

PLC communications:

Integrated interfaces provides you communication with

- SIMATIC S7
- SIMATIC 505
- SIMATIC S5
- via PROFIBUS-DP to SIMATIC S5/S7 (up to 12 Mbps)
- Allen Bradley
- AEG Modicon
- Telemecanique
- Mitsubishi
- OMRON
- GE Fanuc

Suitable for industrial applications:

- Recipe Management
- Displaying process information
- Backup / Restore for configuration files on PC-Card
- powerful integrated alarm system
- integrated printer port
- Service tools (read/write PLC data, SIMATIC F5/S7)



Technical Data

Display Physics		OP27	OP37	
display dimensions 115 x 86 (5,7") 271 x 156 110,4" 20 colr 18 colors 20 col 18 colors 20 c	Physics	passive, STN passive, STN or active, TFT		
System keys 24 32	display dimensions Representation MTBF backlit	115 x 86 (5,7") monochrome (8 grey levels) or color (8 colors) CCFL-bulb	211 x 158 (10,4") color (8 colors) CCFL-bulb	
Mammory Firmware/user memory (integrated) 1/2 (Monochrome/Color) MByte Flash-EPROM 8 MByte 128 KByte, (battery backup) 1/2 (Monochrome/Color) MByte Flash-EPROM 8 MByte 128 KByte, (battery backup) 1/2 (Monochrome/Color) MByte 1/2 KByte, (battery backup) 1/2 KByte, (battery backu	System Keys Function Keys (K) Softkeys (F)	10 (10 with LED's) 14 (8 with LED's)	16 (16 with LED's) 20 (12 with LED's)	
Firmware/user memory (integrated) Main memory DRAM Main memory SRAM Main memory SRAM Ploppy-Disk PC-Card sixt Threfaces IF1/A: IF2: IF2: IF1/B: IF2: IF1/B: IF2: IF1/B: IF2: IF1/B: IF2: IF1/B: IF2: IF3/B: I	Processor	80486 / 33 MHz	Pentium / 100 MHz	
	Firmware/user memory (integrated) Main memory DRAM Main memory SRAM Floppy-Disk	2/4 (Monochrome/Color) MByte 128 KByte, (battery backup) —	8 MByte 128 KByte, (battery backup) 3,5" / 1,44 MByte, optional	
Current	IF1/A: IF2: IF1/B:	TTY (active/passive), RS232-C RS 422, RS 485	TTY (active/passive), RS232-C RS 422, RS 485	
Protection (front/back) Dimensions front plate (WxHz) mm out out dimension (WxHxD) mm Environment Installation position ■ max. permissible angle of orientation without assisted ventilation ■ max. permissible angle of orientation without assisted ventilation ■ max. permissible angle of orientation without assisted ventilation ■ max. permissible angle of orientation ■ operation to 30° angle of orientation ■ operation to 35° angle of orientation ■ operation to 45° cc ■ 4 to +45° cc ■ 4 to +45° cc ■ 4 to +45° cc ■ 4 to +49° cc ■ 4 to +49° cc ■ 255%, non-condensing ■ 595%, non-				
Dimensions front plate cut out dimension (WXH) mm (WXHXD) mm 296 x 192 282 x 176 x 59 ³²² 482 x 310 436 x 295 x 88 ²³ Environment Installation position	Hardware clock	yes, battery backup	yes, battery backup	
front plate (WxH) mm (WxHxD) mm	Protection (front/back)	IP65 / IP20	IP65 / IP20	
Installation position max. permissible angle of orientation without assisted ventilation Temperatures	front plate (WxH) m			
 transportation/storage humidity Operation Operation	Installation position max. permissible angle of orientation without assisted ventilation Temperatures Operation to 10° angle of orientation	±35° 0 to +50°C	±35° or ±25° with floppy drive +4 to +45°C	
All numbers below represent the maximum-number for the individual features The total number is limited by the size of the User memory. Alarm system event messages and alarm messages messages length number of registers per message help text with messages message buffer Recipes number of recipes number of recipes number of recipes number of screens nu	transportation/storage humidityoperation	-20 to +60°C ≤ 95% RH, non-condensing	-20 to +60°C ≤ 95%, non-condensing	
event messages and alarm messages messages length number of registers per message help text with messages message buffer Recipes number of recipes number of recipes number of recipes data records per recipe entries per data record Screens number of screens numbe	<u>'</u>	All numbers below represent the maximum-number for the individual features		
number of recipes max. as 500 max. 500 Screens max. as 500 Importing pixel graphic objects from standard drawing packages during configuration yes character fonts as 7 x 35 char. Online languages as 500 Screens max. as 500 Importing pixel graphic objects from standard drawing packages during configuration yes character fonts as 500 Importing pixel graphic objects from standard drawing packages during configuration yes character fonts as 500 Input, Output, Date, Time, Symbolic Input, Symbolic Output Analog representation such as bargraphs and trends, etc. 7 x 35 char.	event messages and alarm messages messages length (lines x cha number of registers per message help text with messages	r.) 2 x 35	2 x 35	
number of screens max. pixel graphic importing pixel graphic objects from standard drawing packages during configuration symbol graphic yes character fonts dynamic objects max. dynamic objects Input, Output, Date, Time, Symbolic Input, Symbolic Output Analog representation such as bargraphs and trends, etc. Online languages 3	number of recipes ma data records per recipe ma	x. 5	500	
Online languages 3	number of screens ma pixel graphic symbol graphic character fonts ma dynamic objects	importing pixel graphic objects from stand y x. Input, Output, Date, Time, Sy Analog representation such	importing pixel graphic objects from standard drawing packages during configuration yes 4 Input, Output, Date, Time, Symbolic Input, Symbolic Output Analog representation such as bargraphs and trends, etc.	
Password levels 9	Online languages		3	
	Password levels		9 SIMATIC ProTool, runs under Windows	

 $^{^{\}mbox{\tiny 1)}}$ no additional keys, but using existing keys to connect to digital outputs

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Subject to change without prior notice



Depth without options, OP27: D=91 mm with 24 V DC-direct control keys module or control panel interface; D=138 mm with 24 V DC-direct control keys module or control panel interface; D=138 mm with disk drive; D incl. cable inlet or +15 mm for cable inlet in the case of 24 V DC direct control keys module