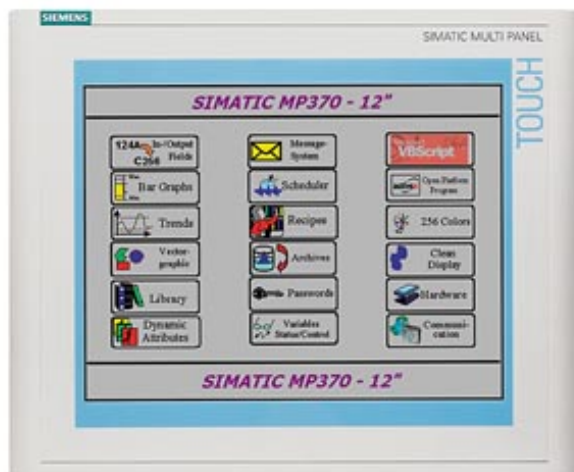


*** SPARE PART*** SIMATIC MULTIPANEL MP370 12" COLOR
TFT DISPLAY, TOUCH WINDOWS CE 3.0 CONFIGURABLE WITH
PROTOOL FROM VERSION V5.2+SP3



General information	
Customer-specific configuration	No
Display	
Design of display	TFT, 256 colors
Screen diagonal	12.1 in
Color type	Colors
Resolution (pixels)	
• Resolution (WxH in pixel)	800 x 600
• Horizontal image resolution	800 Pixel
• Vertical image resolution	600 Pixel
Backlighting	
• MTBF backlighting (at 25 °C)	50 000 h
Control elements	
Control elements	Touch screen
Keyboard fonts	
• Membrane keyboard	No
— user-definable label membrane keys	No
• Numeric/alphabetical input	Yes / Yes

— hexadecimal keyboard	Yes
• Multi-key operation	No
— Number of multi-key operations	0
Touch operation	
• Design as touch screen	Yes; analog, resistive
Connection type	
• Connection for mouse/keyboard/barcode reader	USB / USB / USB
Special operator controls	
• Illuminated pushbutton	Yes
Installation type/mounting	
Mounting position	vertical
maximum permissible angle of inclination without external ventilation	35°
Supply voltage	
Type of supply voltage	DC
UPS connectable (serial)	Yes
Input current	
Current consumption (rated value)	1.15 A
Starting current inrush I _{st}	0.5 A ² ·s
Power	
Power consumption, typ.	28 W
Processor	
Processor type	MIPS
Drives	
Diskette drive	No
CD-ROM	No
Hard disk	No
Memory	
Type of memory	Flash / RAM
Memory available for user data	7 168 kbyte
Battery	
Backup battery	
• Backup battery	optional 3.6 V
• Backup time, min.	3 y
Type of output	
Info LED	No
Power LED	No
Error LED	No

Time of day	
Clock	
• Type	Hardware clock, battery backup, synchronizable
• retentive	Yes; yes, via optional battery
• synchronizable	Yes
Interfaces	
Interfaces/bus type	1 x TTY, 2 x RS232, 1 x RS422, 1 x RS485, 1 x Ethernet (RJ45) (max. 12 Mbit/s)
Number of RS 485 interfaces	1
• Transmission rate, max.	12 Mbit/s
USB port	1 x USB
PC card slot	1 x PC card slot
CF card slot	1 x CF card slot
Industrial Ethernet	
• Industrial Ethernet interface	1 x Ethernet (RJ45)
Degree and class of protection	
Front	IP65
IP (at the front)	IP65
IP (rear)	IP20
Standards, approvals, certificates	
Certifications	CE, FM Class I Div. 2, cULus, EX Zone 2/22
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.	85 %
Operating systems	
Operating system	Windows CE
Configuration	
Configuration software	
• Configuration tool	ProTool Version 5.2 SP 3 or higher, or WinCC flexible Standard Version 2004 or higher (to be ordered separately)
• 1. Configuration kit	ProTool
— Version	Version 5.2 SP 3
— Configuration tool	ProTool
• 2. Configuration kit	WinCC flexible Standard

— Version	Version 2004
— Configuration tool	WinCC flexible
— Type	Standard

Languages

Online languages

- Number of online/runtime languages 5

Project languages

- Languages per project 32

Functionality under WinCC (TIA Portal)

- Libraries Yes

Number of Visual Basic Scripts

- Debugging in the simulator No

- Task planner Yes

- Help system Yes

- Number of characters per info text 70
- Number of tooltips 0

Message system

- Number of alarm classes 32
- Number of messages 4 000
- Bit messages Yes
 - Number of bit messages 4 000
- Analog messages Yes
 - Number of analog messages 4 000
- Telegram message procedure Alarm S Yes
- System messages HMI Yes
- System messages PLC Yes
- System messages, other (SIMATIC S7, Sinumerik, Simotion, etc.) Yes
- Lines 1
- Number of characters per message 80
- Number of process values per message 8
- Acknowledgment groups Yes
- Message indicator Yes
- acoustic feedback No
- First/last value Yes

Recipe management

- Number of recipes 500
- Data records per recipe 1 000
- Entries per data record 1 000
- Recipe memory 128 KB integrated Flash, expandable

Variables

• Number of variables per device	2 048
• Number of variables per screen	400
• Number of variables	2 000
• Initial values	2 048
• Type Date & Time	2 048
• Limit values	Yes
• Multiplexing	Yes
• Structures	Yes
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	30000 text elements
• Number of I/O fields per image	400
• Number of date/time fields	400
• Index of screen context	No
• Return	Yes
• Graphics object	Bit maps, icons, vector graphics
— Icons	2 000
— Icon (full screen)	0
Complex image objects	
• Status/control	With SIMATIC S7
• dynamic objects	Diagrams, bar graphs, sliders, analog display, invisible buttons
— Number of objects per project	2 000
— Number of curve diagrams per image	20
• Methods	Trend / profile
• Bar graphs	
— Number of bars per chart	20
• Sliders	
— Number of slides per image	20
• Pointer instruments	
— Number of analog indicators per image	20
• Limit value lines	Yes
• Number of alphanumerical fields	300
— alphanumeric fields per image	400
• Number of numerical fields	2 048
— numerical fields per image	400
• Number of password fields	2 048

• Number of visible switches per project	400
— visible switches per image	400
— hidden switches per image	400
• Number of status switches per project	400
— Number of status switches per image	400
• Number of selector switches per project	400
— Selector switches per image	400
• Number of decade switches per project	400
— Decade switches per image	400
• Number of signal lamps per project	400
— Signal lamps per image	400
Attributes for dynamic objects	
• Color change	Yes
• X/Y movement	Yes
• Hide	Yes
• Angle of rotation	No
Lists	
• Number of text lists per project	500
• Number of text lists per image	400
• Number of entries per text list	256
• Number of graphics lists per project	500
• Number of graphic lists per image	400
• Number of entries per graphics list	256
Archiving	
• Number of archives per device	50
• Number of measuring points per project	50
• Number of entries per archive	50 000
• Message archive	Yes
• Process value archive	Yes
• Archiving methods	Sequence archive, circular log, alarm log, process value archive
— Sequential archive	Yes
— Short-term archive	Yes
• Memory location	PC card, CF card, Ethernet
— PC card	Yes
— CF card	Yes
— USB memory	No
— Ethernet	Yes
• Data storage format	CSV file, readable, e.g. with MS Excel, MS Access
— CSV	Yes
— TXT	No
• external evaluation	Readable, e.g. with MS Excel, MS Access, etc.

• Size of archive	depending on free memory on ext. card/stick or on free hard disk space via network drive
• Online evaluation	via trends
— using trend curves	Yes
Filters	
• cyclic	Yes
• Tolerance	Yes
• Change	Yes
Security	
• Number of user groups	50
• Number of user rights	32
• Password export/import	Yes
Data carrier support	
• PC card	Yes
• CF card	Yes
• Diskette drive	No
• Hard disk	No
• CD-ROM	No
Logging through printer	
• Recording/Printing	Alarms, report (shift report), color print, hardcopy
Transfer (upload/download)	
• Transfer of configuration	MPI/PROFIBUS DP, serial, USB, Ethernet, by means of external storage medium, automatic transfer recognition
Process coupling	
• Connection to controller	S5, S7-200, S7- 300/400, TI 505, Win AC, PC (TCP/IP), SINUMERIK, SIMOTION, Allen Bradley (DF1), Allen Bradley (DF485), Mitsubishi (FX), Telemecanique (ADJUST), OMRON (LINK/Multilink), Modicon (Modbus), for further non-Siemens drivers, 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	Yes
• S5	Yes
— serial	Yes
— PROFIBUS DP	Yes
• TI 505	Yes
• Allen Bradley (DF1)	Yes

• Allen Bradley (DF485)	Yes
• Mitsubishi (FX)	Yes
• Mitsubishi (MP4)	Yes
• Telemecanique (ADJUST)	Yes
• Telemecanique (Uni-Telway)	Yes
• OMRON (LINK/Multilink)	Yes
• Modicon (Modbus)	Yes
• GE-Fanuc (SNP)	Yes
Functions	
• Key repeat	No
• TAB sequence	Yes
• Calculating functions	Yes
• Animate	Yes
• Menu tree editor	No
• Unit switchover	No
Service tools/configuration aids	
• Clean screen	Yes
• Touch calibration	Yes
• Backup/Restore manually	Yes
• Simulation	Yes
• Device switchover	Yes
• Delta transfer	Yes
• Monitoring function for battery and memory	Yes
• Trace (operation archive)	No
Expandability/openness	
• Open Platform Program	Yes
Peripherals/Options	
Peripherals	Printer, barcode reader
• SIMATIC HMI MM memory card: Multi Media Card	No
• SIMATIC HMI SD memory card: Secure Digital memory card	No
• USB memory	No
Dimensions	
Width of the housing front	335 mm
Height of housing front	275 mm
Weights	
Weight (without packaging)	4.5 kg
Other	
free hotline	Yes

Warranty period

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last modified:

09/17/2016