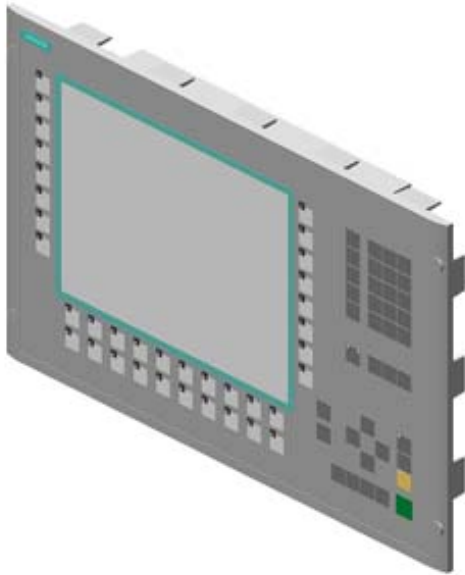


\*\*\* SPARE PART\*\*\* SIMATIC MP 377 12" KEY MULTIPANEL,  
WINDOWS CE 5.0 12" COLOR-TFT-DISPLAY 12 MB USER  
MEMORY CONFIGURABLE FROM WINCC FLEXIBLE 2007



| Display                             |                   |
|-------------------------------------|-------------------|
| Design of display                   | TFT               |
| Screen diagonal                     | 12.1 in           |
| Number of colors                    | 65 536            |
| Color type                          | Colors            |
| Resolution (pixels)                 |                   |
| • Horizontal image resolution       | 800 Pixel         |
| • Vertical image resolution         | 600 Pixel         |
| Backlighting                        |                   |
| • MTBF backlighting (at 25 °C)      | 50 000 h          |
| Control elements                    |                   |
| Control elements                    | Membrane keyboard |
| Keyboard fonts                      |                   |
| • Function keys                     |                   |
| — Number of function keys           | 36                |
| — Number of function keys with LEDs | 36                |
| • System keys                       | Yes               |
| • Numeric/alphabetical input        | Yes / Yes         |

|   |  |
|---|--|
| — hexadecimal keyboard  | Yes  |
| • Multi-key operation   | Yes  |
| — Number of multi-key operations                                      | 2  |
| <b>Connection type</b>  |  |
| • Connection for mouse/keyboard/barcode reader                        | USB / USB / USB                                |
| <b>Installation type/mounting</b>                                     |  |
| maximum permissible angle of inclination without external ventilation | 35°  |
| <b>Input current</b>  |  |
| Current consumption (rated value)                                     | 1.5 A  |
| Starting current inrush I <sup>2</sup> t                              | 4 A <sup>2</sup> ·s                            |
| <b>Power</b>  |  |
| Active power input, typ.  | 36 W   |
| <b>Memory</b>   |  |
| Type of memory  | Flash / RAM                                    |
| Memory available for user data  | 12 288 kbyte                                   |
| <b>Time of day</b>  |  |
| <b>Clock</b>  |  |
| • Type  | Hardware clock, battery backup, synchronizable |
| • retentive   | Yes  |
| • synchronizable  | Yes  |
| <b>Interfaces</b>   |  |
| Interfaces/bus type   | 1 x RS422, 1 x RS485, 2 x Ethernet (RJ45)      |
| Number of RS 485 interfaces   | 1  |
| USB port  | 2 x USB  |
| CF card slot  | 1 x CF card slot                               |
| Multimedia card/SD card slot  | 1x Multimedia Card slot, up to 128 MB          |
| <b>Industrial Ethernet</b>  |  |
| • Industrial Ethernet interface                                       | 2 x Ethernet (RJ45)                            |
| <b>Protocols</b>  |  |
| PROFIBUS  | Yes  |
| MPI   | Yes  |
| <b>Protocols (Ethernet)</b>   |  |
| • TCP/IP  | Yes  |
| <b>Protocols (terminal link)</b>                                      |  |
| • Sm@rtServer   | Yes  |
| <b>EMC</b>  |  |
| Emission of radio interference acc. to EN 55 011                      |  |
| • Limit class A, for use in industrial areas                          | Yes  |

| Degree and class of protection |  |
|--------------------------------|--|
| Front                          | IP65, NEMA 4, NEMA 12 (when installed) |
| IP (at the front)              | IP65                                   |
| IP (rear)                      | IP20                                   |

| Standards, approvals, certificates |  |
|------------------------------------|--|
| Certifications                     | CE, cULus, C-TICK, NEMA 4, NEMA 12   |
| cULus                              | Yes  |
| EMC                                | The product is designed for use in industrial environments. When used in residential areas, the emission of radio interference according to limit class B of EN 55011 must be ensured. For further information refer to the user documentation |

| Ambient conditions                                |        |
|---|--------|
| Ambient temperature during storage/transportation |        |
| • min.  | -20 °C |
| • max.  | 60 °C  |
| Relative humidity                                 |        |
| • Operation, max.                                 | 90 %   |

| Operating systems              |            |
|--------------------------------|------------|
| pre-installed operating system | Windows CE |

| 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   |
| Configuration software                         |   |
| • Configuration tool                           | WinCC flexible Standard Version 2007 or higher (to be ordered separately) |

| Languages                            |    |
|--------------------------------------|----|
| Online languages                     |    |
| • Number of online/runtime languages | 16 |
| 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   | 70    |
| 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                                      | 200                                 |
| • 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                                   |
| • Message indicator  | Yes                                 |
| • First/last value   | Yes                                 |
| <b>Recipe management</b>   |                                     |
| • Number of recipes  | 500                                 |
| • Data records per recipe  | 1 000                               |
| • Entries per data record  | 1 000                               |
| • Recipe memory  | 128 KB integrated Flash, expandable |
| <b>Variables</b>   |                                     |
| • 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                                 |
| <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   | 30000 text elements                 |
| • Number of I/O fields per image                                 | 400                                 |
| • Number of date/time fields                                     | 400                                 |
| • Return   | Yes                                 |
| • Graphics object  | Bit maps, icons, vector graphics    |
| — Icons  | 2 000                               |

| 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 signal lamps per project      | 400  |
| — Signal lamps per image                  | 400  |
| Attributes for dynamic objects            |  |
| • Color change                            | Yes  |
| • X/Y movement                            | Yes  |
| • Hide                                    | Yes  |
| 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                 | CF card, SD/MMC card, Ethernet, USB memory stick  |
| — CF card                         | Yes   |
| — Ethernet                        | Yes   |
| • Data storage format             | CSV file, readable, e.g. with MS Excel, MS Access   |
| — CSV                             | Yes   |
| • 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   |
| <b>Filters</b>                    |   |
| • cyclic                          | Yes   |
| • Tolerance                       | Yes   |
| • Change                          | Yes   |
| <b>Security</b>                   |   |
| • Number of user groups           | 50  |
| • Number of user rights           | 32  |
| • Password export/import          | Yes   |
| <b>Data carrier support</b>       |   |
| • CF card                         | Yes   |
| • Hard disk                       | Yes   |
| <b>Logging through printer</b>    |   |
| • Recording/Printing              | Alarms, report (shift report), color print, hardcopy  |
| <b>Transfer (upload/download)</b> |   |
| • Transfer of configuration       | MPI/PROFIBUS DP, serial, USB, Ethernet, by means of external storage medium, automatic transfer recognition   |
| <b>Process coupling</b>           |   |
| • 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), OMRON (LINK/Multilink), Modicon (Modbus), further non-Siemens drivers, see chapter "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                                  |
| — PROFIBUS DP  | Yes                                  |
| • TI 505   | Yes                                  |
| • Allen Bradley (DF1)                                    | Yes                                  |
| • Allen Bradley (DF485)                                  | Yes                                  |
| • Mitsubishi (FX)  | Yes                                  |
| • Mitsubishi (MP4)                                       | Yes                                  |
| • Telemecanique (Uni-Telway)                             | Yes                                  |
| • OMRON (LINK/Multilink)                                 | Yes                                  |
| • Modicon (Modbus)                                       | Yes                                  |
| • GE-Fanuc (SNP)   | Yes                                  |
| <b>Functions</b>   |                                      |
| • Key repeat   | Yes                                  |
| • TAB sequence   | Yes                                  |
| • Calculating functions                                  | Yes                                  |
| • Animate  | Yes                                  |
| <b>Service tools/configuration aids</b>                  |                                      |
| • Backup/Restore manually                                | Yes                                  |
| • Simulation   | Yes                                  |
| • Device switchover                                      | Yes                                  |
| • Delta transfer   | Yes                                  |
| • Monitoring function for battery and memory             | Yes                                  |
| <b>Expandability/openness</b>                            |                                      |
| • Open Platform Program                                  | Yes                                  |
| <b>Peripherals/Options</b>                               |                                      |
| Peripherals  | Printer, card reader, barcode reader |
| • SIMATIC HMI MM memory card: Multi Media Card           | Yes                                  |
| • SIMATIC HMI SD memory card: Secure Digital memory card | Yes                                  |
| • USB memory   | Yes                                  |
| Additional software components loadable                  | Yes                                  |
| <b>Dimensions</b>  |                                      |
| Width of the housing front                               | 483 mm                               |
| Height of housing front                                  | 310 mm                               |
| Mounting cutout, width                                   | 450 mm                               |
| Mounting cutout, height                                  | 290 mm                               |

|               |       |
|---------------|-------|
| Overall depth | 59 mm |
|---------------|-------|

### Weights

|                            |        |
|----------------------------|--------|
| Weight (without packaging) | 5.5 kg |
|----------------------------|--------|

|                       |            |
|-----------------------|------------|
| <b>last modified:</b> | 04/28/2017 |
|-----------------------|------------|