

SIMATIC Touch Panel TP 177micro for SIMATIC S7-200 5.7" blue mode STN display configurable from WinCC flexible 2004 Micro HSP contains open source software, which is provided free of charge. see enclosed CD



Figure similar

| Display | |
|--------------------------------------|----------------|
| Design of display | STN |
| Screen diagonal | 5.7 in |
| Color display | No |
| Number of colors | 4; Blue levels |
| Resolution (pixels) | |
| • Horizontal image resolution | 320 Pixel |
| • Vertical image resolution | 240 Pixel |
| Backlighting | |
| • MTBF backlighting (at 25 °C) | 50 000 h |
| Control elements | |
| Control elements | Touch screen |
| Keyboard fonts | |
| • Membrane keyboard | |
| — user-definable label membrane keys | No |
| • Function keys | No |
| • System keys | No |

| | |
|---|-----------------------------------|
| — Number of system keys | 0 |
| • alphanumeric keyboard | Yes |
| • hexadecimal keyboard | Yes |
| • Multi-key operation | No |
| Touch operation | |
| • Design as touch screen | Yes; analog, resistive |
| Installation type/mounting | |
| Mounting position | vertical |
| maximum permissible angle of inclination without external ventilation | 35° |
| Supply voltage | |
| Type of supply voltage | DC |
| Input current | |
| Current consumption (rated value) | 0.24 A |
| Starting current inrush I ² t | 0.5 A ² ·s |
| Power | |
| Active power input, typ. | 6 W |
| Processor | |
| Processor type | ARM |
| Memory | |
| Type of memory | Flash |
| Memory available for user data | 256 kbyte |
| Time of day | |
| Clock | |
| • Type | Software clock, no battery backup |
| • retentive | No |
| • synchronizable | No |
| Interfaces | |
| Interfaces/bus type | 1x RS 485 (max. 187.5 kbit/s) |
| Number of RS 485 interfaces | 1 |
| • Transmission rate, max. | 187.5 kbit/s |
| Number of USB interfaces | 0 |
| Protocols | |
| Supports protocol for PROFINET IO | No |
| PROFIsafe | No |
| PROFIBUS | Yes |
| Protocols (Ethernet) | |
| • TCP/IP | No |
| Further protocols | |

| | |
|--|--|
| • EtherNet/IP | No |
| • MODBUS | No |
| • other bus systems | Yes |
| Degree and class of protection | |
| IP (at the front) | IP65 |
| NEMA (front) | NEMA 4x (when installed) |
| IP (rear) | IP20 |
| Standards, approvals, certificates | |
| Certifications | CE, GL, ABS, BV, DNV, LRS, FM Class I Div. 2, UL, CSA, cULus, EX-Zone 2 (in Vorbereitung), EX-Zone 22 (in Vorbereitung), C-TICK, NEMA 4x |
| cULus | Yes |
| EAC (formerly Gost-R) | No |
| Suitable for safety functions | No |
| Marine approval | |
| • 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 |
| Use in hazardous areas | |
| • ATEX Zone 2 | Yes |
| • ATEX Zone 22 | Yes |
| • FM Class I Division 2 | Yes |
| 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. | 90 % |
| 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 Micro Version 2004 SP1, HSP or higher (to be ordered separately) |
| • 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 |
| 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 | 20 |
| • Telegram message procedure Alarm S | No |
| • System messages HMI | Yes |
| • System messages PLC | Yes |
| • System messages, other (SIMATIC S7, Sinumerik, Simotion, etc.) | No |
| • 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 |
| Variables | |
| • Number of variables per device | 250 |
| • Number of variables per screen | 20 |
| • Limit values | Yes |
| • Multiplexing | Yes |
| • Structures | No |
| Images | |
| • Number of configurable images | 250 |
| • Permanent window/default | Yes |
| • Start screen configurable | Yes |
| • Image selection by PLC | No |
| • Image number in the PLC | No |
| Image objects | |
| • Text objects | 500 text elements |
| • Number of I/O fields per image | 20 |
| • Number of date/time fields | 0 |
| • Index of screen context | No |
| • Return | No |
| • Graphics object | Bit maps, icons, icon (full-screen), vector graphics |
| — Icons | 1 |
| — Icon (full screen) | 1 |
| Complex image objects | |
| • Status/control | Not possible |
| • dynamic objects | Diagrams, bar graphs |
| — Number of curves per diagram | 1 |
| • 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 |
| — alphanumeric 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 |
| Attributes for dynamic objects | |
| • Color change | No |
| • X/Y movement | No |
| • Hide | Yes |
| • Angle of rotation | No |
| Lists | |
| • Number of text lists per project | 150 |
| • Number of graphics lists per project | 100 |
| Security | |
| • Number of user groups | 1 |
| • Number of users | 1 |
| • Password export/import | Yes |
| Transfer (upload/download) | |
| • Transfer of configuration | serial |
| Process coupling | |
| • 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 |
| Functions | |
| • Key repeat | No |
| • TAB sequence | Yes |
| • Calculating functions | Yes |
| • Animate | No |
| • Menu tree editor | No |
| • Unit switchover | No |
| Service tools/configuration aids | |
| • Clean screen | Yes |
| • Touch calibration | Yes |
| • 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 | |
| Peripherals | |
| • SIMATIC HMI MM memory card: Multi Media Card | No |
| Additional software components loadable | Yes |
| Dimensions | |
| Width of the housing front | 212 mm |
| Height of housing front | 156 mm |
| Mounting cutout, width | 198 mm |
| Mounting cutout, height | 142 mm |
| Overall depth | 45 mm |
| Weights | |
| Weight (without packaging) | 0.75 kg |
| Other | |

| | |
|-----------------------|------------|
| free hotline | Yes |
| Warranty period | 1 y |
| last modified: | 02/27/2018 |