



Product data sheet
6AV6542-0CA10-0AX0

Available as a Spare Part Only - subject to availability - SIMATIC OP270 6" OPERATOR PANEL 5.7" STN COLOR DISPLAY

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|-----------------------------------|--|
| Supply voltage | |
| Supply voltage | 24 V DC |
| permissible range | +20.4 V to +28.8 V DC |
| Type of voltage | DC |
| Rated current | 0.6 A |
| UPS connectable (serial) | Yes |
| Backup battery | |
| Backup battery | optional 3.6 V |
| minimum backup duration | 3 a |
| Memory | |
| Type | Flash / RAM |
| Usable memory for user data | 2048 KB usable memory for user data |
| Time of day | |
| Clock | |
| Type | Hardware clock, battery backup, synchronizable |
| battery-backed and synchronizable | Yes |
| Configuration | |
| Configuration tool | ProTool Version 6 SP 3 or higher, or WinCC flexible Standard Version 2004 or higher (to be ordered separately) |
| 1st configuration kit | ProTool |
| Version | Version 6 SP 3 |
| Configuration tool | ProTool |
| 2nd configuration kit | WinCC flexible Standard |
| Version | Version 2004 |
| Configuration tool | WinCC flexible |
| Type | Standard |
| Display | |
| Display type | STN, 256 Farben |

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|---|---|
| Design of display | STN |
| Size | 5.7" |
| Screen diagonal | 5.7 in |
| Resolution (WxH in pixel) | 320 x 240 |
| Color type | Colors |
| MTBF backlighting (at 25 °C) | about 40,000 hours |
| Expansions for operator control of the process | |
| DP direct LEDs (LEDs as S7 output I/O) | F1...F8, K1...K10 |
| DP direct keys (screen buttons and keys as S7 input I/O) | F1...F14, K1...K10, Number of bytes for configurable buttons: 4 |
| DC 24 V direct key module/outputs | No |
| CPI module | No |
| Operating mode | |
| Control elements | Membrane keyboard |
| Operating options | Keys |
| Function keys, programmable | 24 function keys, 18 with LEDs |
| Connection for mouse/keyboard/barcode reader | USB / USB / USB |
| external mouse | USB |
| external keyboard | USB |
| Touch screen | No |
| freely inscribable membrane keys | Yes |
| Number of function keys with LEDs | 18 |
| Numeric/alphabetical input | Yes / Yes |
| hexadecimal keyboard | Yes |
| Multi-key operation | Yes |
| Connection for barcode reader | USB |
| Handwheel | No |
| Ambient conditions | |
| Mounting position | vertical |
| maximum permissible angle of inclination without external ventilation | +/- 35 ° |
| max. relative humidity (in %) | 90 % |
| Temperature | |
| Operation (vertical installation) | 0 °C to +50 °C |
| Operation (max. tilt angle) | 0 °C to +35 °C |
| Transport, storage | -20 °C to +60 °C |

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| Degree of protection | |
| Front | IP65 |
| IP (at the front) | IP65 |
| Rear | IP20 |
| IP (rear) | IP20 |
| Certifications & standards | |
| Certifications | CE, GL, ABS, DNV, LRS, FM Class I Div. 2, UL, cULus, EX Zone 2/22, C-TICK |
| I/O / Options | |
| I/O devices | Printer, barcode reader |
| Type of output | |
| Info LED | Yes |
| Power LED | No |
| Error LED | No |
| LED colors | Green |
| Acoustics | No |
| Interfaces | |
| Interfaces | 2 x RS232, 1 x RS422, 1 x RS485 (max. 12 Mbit/s) |
| Number of interfaces/according to RS 485 | 1 |
| Transmission rate, max. | 12 Mbit/s |
| PC card slot | No |
| CF card slot | 1 x CF card slot |
| Multi Media Card slot | No |
| USB | 1 x USB |
| Ethernet | No |
| Special interfaces | No |
| Operating systems | |
| Operating system | Windows CE |
| other | |
| free hotline | Yes |
| Warranty period | 1 a |
| Processor | |
| Processor | RISC 32-bit |
| Processor type | RISC 32-bit |
| Drives | |

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| Design of drive/storage medium, CD-ROM | No |
| Design of drive/storage medium, diskette | No |
| Design of drive/storage medium, hard disk | No |
| Functionality under ProTool | |
| Applications/options | ProAgent |
| Visual Basic Script | Number = 50 / Number of lines per script = 20 |
| Alarm clock | Yes |
| Clean screen | No |
| Number of levels for password protection | 9 |
| Help system | Yes |
| Number of info. texts | 70 |
| Memory requirement for first unit | 10 byte |
| Memory requirement for each additional unit | 10 byte |
| Number of tooltips | 0 |
| Memory requirement for first unit | 10 byte |
| Memory requirement for each additional unit | 10 byte |
| Status/control | With SIMATIC S5/S7 |
| Message system | |
| Number of operating messages | 2000 |
| Memory requirement for first unit | 252 byte |
| Memory requirement for each additional unit | 196 byte |
| Number of fault messages | 2000 |
| Memory requirement for first unit | 252 byte |
| Memory requirement for each additional unit | 196 byte |
| System messages | Yes |
| Message length (lines x characters) | 1 x 70 |
| Number of process values in messages | 8 |
| Number of acknowledgement groups | 99 ; only yes in this case |
| Message indicator | Yes |
| Acoustic feedback | No |
| First/last value | Yes |
| Message buffer | Ring buffer (n x 512 entries) |
| Recipes | |
| Number of recipes | 300 |
| Memory requirement for first unit | 10 byte |

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| Memory requirement for each additional unit | 10 byte |
| Number of data records per recipe | 500 |
| Memory requirement for first unit | 10 byte |
| Memory requirement for each additional unit | 10 byte |
| Number of entries per data record | 1000 |
| Memory requirement for first unit | 10 byte |
| Memory requirement for each additional unit | 10 byte |
| Recipe memory | 64 KB integrated Flash, expandable |
| Number of process images | |
| Number of process images | 300 |
| Memory requirement for first unit | 40560 byte |
| Memory requirement for each additional unit | 131 byte |
| Number of variables | 2048 |
| Number of variables of Date & Time type | 2048 |
| Number of variables of Internal Variable type | 1000 |
| Limit values | Yes |
| Multiplexing | Yes |
| Image elements | |
| Text objects | 10,000 text elements |
| Number of fields per screen | 200 |
| Number of variables per screen | 200 |
| Permanent window/default | Y |
| Image selection via PLC | Yes |
| Index of screen context | No |
| Start screen configurable | Yes |
| Image number in the PLC | Yes |
| Return | Yes |
| Graphics object | Bit maps, icons, vector graphics |
| Number of icons | 1000 |
| Memory requirement for first unit | 1150 byte |
| Memory requirement for each additional unit | 1150 byte |
| Number of screen filling icons | 0 |
| Memory requirement for first unit | 14330 byte |
| Memory requirement for each additional unit | 11540 byte |

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| dynamic objects | Diagrams, bar graphs, sliders, analog display, invisible buttons |
| Number of objects per project | 1000 |
| Number per image | 10 |
| Memory requirement for first unit | 1020 byte |
| Memory requirement for each additional unit | 796 byte |
| Number of curves per diagram | 8 |
| Memory requirement for first unit | 10 byte |
| Memory requirement for each additional unit | 284 byte |
| Write direction | horizontal |
| vertical | No |
| Online operation of trends | Compress / shift |
| trigger | Bit / time |
| Methods | Trend / profile |
| Limit value lines | Yes |
| Number of bars per chart | 10 |
| Direction | vertical / horizontal |
| Limit value lines | Yes |
| Number of alphanumerical fields | 2048 |
| Number of alphanumerical fields per screen | 200 |
| Memory requirement for first unit | 588 byte |
| Memory requirement for each additional unit | 307 byte |
| Number of numerical fields | 2048 |
| Number of numerical fields per screen | 200 |
| Memory requirement for first unit | 588 byte |
| Memory requirement for each additional unit | 307 byte |
| Number of date and time fields | 32 |
| Memory requirement for first unit | 304 byte |
| Memory requirement for each additional unit | 184 byte |
| Number of password fields | 2048 |
| Memory requirement for first unit | 588 byte |
| Memory requirement for each additional unit | 307 byte |
| Number of slides per image | 10 |
| Memory requirement for first unit | 816 byte |
| Memory requirement for each additional unit | 484 byte |

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| Number of analog indicators per image | 10 |
| Memory requirement for first unit | 964 byte |
| Memory requirement for each additional unit | 628 byte |
| Number of visible switches per project | 2048 |
| Number of visible switches per screen | 200 |
| Memory requirement for first unit | 368 byte |
| Memory requirement for each additional unit | 196 byte |
| Number of invisible switches per screen | 200 |
| Memory requirement for first unit | 128 byte |
| Memory requirement for each additional unit | 76 byte |
| Number of status switches per project | 2048 |
| Number of buttons for state switches per screen | 200 |
| Memory requirement for first unit | 660 byte |
| Memory requirement for each additional unit | 376 byte |
| Number of selector switches per project | 2048 |
| Number of selector switches per screen | 200 |
| Memory requirement for first unit | 656 byte |
| Memory requirement for each additional unit | 408 byte |
| Number of decade switches per project | 0 |
| Number of decade switches per screen | 0 |
| Memory requirement for first unit | 0 byte |
| Memory requirement for each additional unit | 0 byte |
| Number of signal lamps per project | 2048 |
| Number of indicator lights per screen | 200 |
| Memory requirement for first unit | 10 byte |
| Memory requirement for each additional unit | 10 byte |
| 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 | 10 |
| Memory requirement for first unit | 10 byte |
| Memory requirement for each additional unit | 10 byte |

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| Number of entries per project | 256 |
| Memory requirement for first unit | 10 byte |
| Memory requirement for each additional unit | 10 byte |
| Number of graphics lists per project, max. | 400 |
| Number of graphic lists per image, max. | 10 |
| Memory requirement for first unit | 10 byte |
| Memory requirement for each additional unit | 10 byte |
| Number of entries per project | 256 |
| Memory requirement for first unit | 10 byte |
| Memory requirement for each additional unit | 10 byte |
| Libraries | Yes |
| Archiving | |
| Number of measuring points per archive | 20 |
| Number of entries per archive | 10000 |
| Archiving types | Sequence archive, circular log, alarm log, process value archive |
| Memory location | CF card, Ethernet |
| Data storage format | CSV file, readable, e.g. with MS Excel, MS Access |
| 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 |
| Filters | |
| cyclic | Yes |
| Tolerance | Yes |
| Change | Yes |
| Recording | |
| Recording/Printing | Alarms, report (shift report), color print, hardcopy |
| Printer driver | ESC/P2, PCL3/PCL6 |
| Character sets | |
| Keyboard character sets | US American |
| Languages | |
| Number of online languages | 5 |
| Number of online languages per project | 32 |
| Memory requirement for first unit | 23424 byte |
| Memory requirement for each additional unit | 26819 byte |

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| Configuration languages | D, GB, F, I, E, CHN "traditional", CHN "simplified", DK, FIN, GR, J, KP / ROK, NL, N, PL, P, RUS, S, CZ / SK, TR, h |
| Character sets | Tahoma, Arial, Courier New, Pro Tool-Standard, symbol languages, 2 additional character sets can be loaded, all freely scalable |
| Transfer (upload/download) | |
| Transfer of configuration | MPI/PROFIBUS DP (where available), serial, USB, Ethernet, by means of external storage medium, automatic transfer recognition |
| Download | |
| optional software | Y |
| Operating system update | Y |
| Process coupling | |
| Connection to controller | S5, S7-200, S7- 300/400, TI 505, Win AC, SINUMERIK, SIMOTION, Allen Bradley (DF1), Allen Bradley (DH485), Mitsubishi (FX), Telemecanique (ADJUST), OMRON (LINK/Multilink), Modicon (Modbus), for further non-Siemens drivers, see section on "System interfaces" |
| S5 | Yes |
| serial | Yes |
| PROFIBUS DP | Yes |
| 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 IO | No |
| TI 505 | Yes |
| Point-to-point | Yes |
| Network | Yes |
| Allen Bradley (DF1) | Yes |
| Point-to-point | Yes |
| Network | Yes |

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| Allen Bradley (DH485) | Yes |
| Point-to-point | Yes |
| Network | Yes |
| Mitsubishi (FX) | Yes |
| Point-to-point | Yes |
| Network | No |
| Mitsubishi (MP4) | Yes |
| Point-to-point | Yes |
| Network | Yes |
| Telemecanique (ADJUST) | Yes |
| Point-to-point | Yes |
| Network | Yes |
| Telemecanique (Uni-Telway) | Yes |
| Point-to-point | Yes |
| Network | Yes |
| OMRON (LINK/Multilink) | Yes |
| Point-to-point | Yes |
| Network | Yes |
| Modicon (Modbus) | Yes |
| Point-to-point | Yes |
| Network | Yes |
| GE-Fanuc (SNP) | Yes |
| Point-to-point | Yes |
| Network | Yes |
| Functions | |
| Key repeat | No |
| TAB sequence | Yes |
| Calculating functions | Yes |
| Animate | Yes |
| Menu tree editor | No |
| Unit switchover | No |
| Booting via external memory | Yes |
| Service tools/configuration aids | |
| Touch calibration | No |
| Backup/restore | Yes |

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| Simulation | Yes |
| Language tool | No |
| System messages Edit | No |
| Device switchover | Yes |
| Delta transfer | No |
| Monitoring the battery, memory,... | Yes |
| Trace (operation archive) | No |
| Expandability/openness | |
| Open Platform Program (OPP) | Yes |
| Functionality under WinCC flexible | |
| Applications/options | ProAgent, Sm@rtService, Sm@rtAccess |
| Number of Visual Basic Scripts | 50 |
| Debugging in the simulator | No |
| Task planner | Yes |
| Help system | Yes |
| Number of info. texts | 70 |
| Memory requirement for first unit | 10 byte |
| Memory requirement for each additional unit | 10 byte |
| Number of tooltips | 0 |
| Memory requirement for first unit | 0 byte |
| Memory requirement for each additional unit | 0 byte |
| Status/control | with SIMATIC S7 |
| Message system | |
| Number of messages | 4000 |
| Bit messages | Yes |
| Analog messages | Yes |
| Number of bit messages | 2000 |
| Memory requirement for first unit | 10 byte |
| Memory requirement for each additional unit | 10 byte |
| Number of analog messages | 2000 |
| Memory requirement for first unit | 10 byte |
| Memory requirement for each additional unit | 10 byte |
| Number of alarm classes | 32 |
| Memory requirement for first unit | 10 byte |
| Memory requirement for each additional unit | 10 byte |

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| Telegram message procedure Alarm S | Yes |
| System messages HMI | Yes |
| System messages PLC | No |
| System messages, other (Sinumerik, Simotion,...) | No |
| Message length (in characters) | 70 |
| Lines | 1 |
| Number of process values per message | 8 |
| Acknowledgment groups | Yes |
| Message indicator | Yes |
| Acoustic feedback | No |
| First/last value | Yes |
| Message buffer | Ring buffer (n x 512 entries), non-retentive |
| Recipes | |
| Recipes | 300 |
| Memory requirement for first unit | 10 byte |
| Memory requirement for each additional unit | 10 byte |
| Data records per recipe | 500 |
| Memory requirement for first unit | 10 byte |
| Memory requirement for each additional unit | 10 byte |
| Entries per data record | 1000 |
| Memory requirement for first unit | 10 byte |
| Memory requirement for each additional unit | 10 byte |
| Recipe memory | 64 KB integrated Flash, expandable |
| Number of process images | |
| Process images | 300 |
| Variables | 2048 |
| Type Date & Time | 2048 |
| Number of internal variable | 2048 |
| Limit values | Yes |
| Multiplexing | Yes |
| Structs | Yes |
| Image elements | |
| Text objects | 10,000 text elements |
| Fields per image | 200 |
| Variables per image | 200 |

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|---|---|
| Permanent window/default | Yes |
| Image selection via PLC | Yes |
| Index of screen context | No |
| Start screen configurable | Yes |
| Image number in the PLC | Yes |
| Return | Y |
| Graphics object | Bit maps, icons, vector graphics |
| Icons | 1000 |
| Memory requirement for first unit | 270 byte |
| Memory requirement for each additional unit | 270 byte |
| Icon (full screen) | 0 |
| Memory requirement for first unit | 9000 byte |
| Memory requirement for each additional unit | 8200 byte |
| dynamic objects | Diagrams, bar graphs, invisible buttons |
| Number of objects per project | 500 |
| Number per image | 5 |
| Memory requirement for first unit | 955 byte |
| Memory requirement for each additional unit | 672 byte |
| Write direction | horizontal |
| Memory requirement for first unit | 10 byte |
| Memory requirement for each additional unit | 280 byte |
| Online operation of trends | Compress / shift |
| trigger | Bit / time |
| Methods | Trend |
| Limit value lines | Yes |
| Number of bars per chart | 10 |
| Memory requirement for first unit | 560 byte |
| Memory requirement for each additional unit | 350 byte |
| Direction | vertical / horizontal |
| Limit value lines | Yes |
| alphanumeric fields | 1000 |
| alphanumeric fields per image | 100 |
| Memory requirement for first unit | 490 byte |
| Memory requirement for each additional unit | 320 byte |
| numerical fields | 1000 |

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| numerical fields per image | 100 |
| Memory requirement for first unit | 490 byte |
| Memory requirement for each additional unit | 320 byte |
| Date and time field | 30 |
| Memory requirement for first unit | 1536 byte |
| Memory requirement for each additional unit | 196 byte |
| Password errors | 1000 |
| Memory requirement for first unit | 360 byte |
| Memory requirement for each additional unit | 188 byte |
| Number of slides per image | 0 |
| Memory requirement for first unit | 0 byte |
| Memory requirement for each additional unit | 0 byte |
| Number of analog indicators per image | 0 |
| Memory requirement for first unit | 0 byte |
| Memory requirement for each additional unit | 0 byte |
| Number of visible switches per project | 1000 |
| visible switches per image | 100 |
| Memory requirement for first unit | 552 byte |
| Memory requirement for each additional unit | 299 byte |
| hidden switches per image | 100 |
| Memory requirement for first unit | 136 byte |
| Memory requirement for each additional unit | 88 byte |
| Number of status switches per project | 1000 |
| Button status switches per image | 100 |
| Memory requirement for first unit | 624 byte |
| Memory requirement for each additional unit | 366 byte |
| Number of selector switches per project | 1000 |
| Selector switches per image | 100 |
| Memory requirement for first unit | 560 byte |
| Memory requirement for each additional unit | 350 byte |
| Number of decade switches per project | 0 |
| Decade switches per image | 0 |
| Memory requirement for first unit | 0 byte |
| Memory requirement for each additional unit | 0 byte |
| Number of signal lamps per project | 1000 |

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|---|---|
| Signal lamps per image | 100 |
| Memory requirement for first unit | 10 byte |
| Memory requirement for each additional unit | 10 byte |
| Attributes for dynamic objects | |
| Color change | Yes |
| X/Y movement | Yes |
| Hide | Yes |
| Angle of turn | No |
| Lists | |
| Text lists | 500 |
| Memory requirement for first unit | 10 byte |
| Memory requirement for each additional unit | 10 byte |
| Number of entries in text lists | 256 |
| Memory requirement for first unit | 10 byte |
| Memory requirement for each additional unit | 10 byte |
| Graphics list | 400 |
| Number of graphic lists per image | 10 |
| Memory requirement for first unit | 10 byte |
| Memory requirement for each additional unit | 10 byte |
| Number of entries in graphics lists | 255 |
| Memory requirement for first unit | 10 byte |
| Memory requirement for each additional unit | 10 byte |
| Libraries | Yes |
| Archiving | |
| Number of archives per project | 20 |
| Number of measuring points per project | 20 |
| Number of entries per archive | 10000 |
| Archiving types | Long-term archive, short-term archive, message archive, process value archive |
| Sequential archive | Yes |
| Short-term archive | Yes |
| Message archive | Yes |
| Process value archive | Yes |
| Memory location | CF card, Ethernet |
| PC card | No |

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|---|---|
| CF card | Yes |
| RAM | 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 | Using trend curves |
| Using trend curves | Yes |
| Filters | |
| cyclic | Yes |
| Tolerance | Yes |
| Change | Yes |
| Security | |
| Number of user groups | 50 |
| Passwords exportable | Yes |
| Number of user rights | 32 |
| Recording | |
| Recording/Printing | Alarms, report (shift report), color print, hardcopy |
| Printer driver | ESC/P2, PCL3/PCL6 |
| Fonts | |
| Keyboard fonts | US American (English) |
| Languages | |
| Online languages | 5 |
| Languages per project | 32 |
| Memory requirement for first unit | 19080 byte |
| Memory requirement for each additional unit | 22594 byte |
| Configuration languages | D, GB, F, I, E, CHN "traditional", CHN "simplified", DK, FIN, GR, J, KP / ROK, NL, N, PL, P, RUS, S, CZ / SK, TR, H |
| Character sets | Tahoma, symbol languages, 2 additional character sets can be loaded, all freely scalable |
| Transfer (upload/download) | |

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| Transfer of configuration | MPI/PROFIBUS DP, serial, USB, Ethernet, 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" |
| S5 | Yes |
| serial | Yes |
| PROFIBUS DP | Yes |
| S7-200 | Yes |
| PPI (point-to-point) | Yes |
| PPI network | No |
| MPI | Yes |
| PROFIBUS DP | Yes |
| S7-300/400 | Yes |
| MPI | Yes |
| PROFIBUS DP | Yes |
| PROFINET | No |
| TI 505 | Yes |
| Point-to-point | Yes |
| Network | Yes |
| Allen Bradley (DF1) | Yes |
| Point-to-point | Yes |
| Network | Yes |
| Allen Bradley (DF485) | Yes |
| Point-to-point | Yes |
| Network | Yes |
| Mitsubishi (FX) | Yes |
| Point-to-point | Yes |
| Network | No |
| Mitsubishi (MP4) | Yes |
| Point-to-point | Yes |
| Network | Yes |
| Telemecanique (ADJUST) | Yes |

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| Point-to-point | Yes |
| Network | Yes |
| Telemecanique (Uni-Telway) | Yes |
| Point-to-point | Yes |
| Network | Yes |
| OMRON (LINK/Multilink) | Yes |
| Point-to-point | Yes |
| Network | Yes |
| Modicon (Modbus) | Yes |
| Point-to-point | Yes |
| Network | Yes |
| GE-Fanuc (SNP) | Yes |
| Point-to-point | Yes |
| Network | 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 | No |
| Touch calibration | No |
| Backup/restore | 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 |
| Mechanics | |
| Type of housing (front) | Plastic |
| Mounting technology | Clamp terminals |

Dimensions

Front of enclosure (W x H) 308 mm x 204 mm
Mounting cutout/Device depth (W x H/D) in mm 282 mm x 178 mm / 59 mm device depth

Dimensions and weight

Weight

Weight 1 kg

Status Mar 12, 2010