



Touch panel, 24 V DC, 5.7z, STNcolor, ethernet, RS232, CAN, (PLC)

Article no. 139956

Delivery program

| | | | |
|---|--|-------|--|
| Product range | | | XV200 |
| Display - Type | | | Color display, CSTN |
| Touch-technology | | | Resistive-Touch |
| Number of colours | | | 256 grey levels |
| Resolution | | Pixel | 320 x 240 |
| Portrait format | | | yes |
| Screen diagonal | | Inch | 5.7 |
| Model | | | Insulating enclosure and front plate |
| Operating system | | | Windows CE (license required) |
| PLC-licence | | | Can be fitted by user with article no. 140388 LIC-PLC-MXP-LIGHT |
| License certificates for onboard interfaces | | | Can be expanded as required, see Accessories -> License product certificates |
| built-in interfaces | | | 1 x Ethernet 100base-TX/10base-T 1 x PROFIBUS/MPI 1 x RS232 1 x CAN |
| Front type | | | Standard film |
| Utilization | | | Flush mounting |
| Slots | | | for Compact-Flash™ Cards: 1 |
| Memory card automation | | | required, see Accessories -> Memory cards |
| Pluggable communication cards (optional) | | | no |
| Heat dissipation | | W | 8 |

Technical data

Display

| | | | |
|-----------------------------------|--|-------------------|-----------------------------------|
| Display - Type | | | Color display, CSTN |
| Screen diagonal | | Inch | 5.7 |
| Resolution | | Pixel | 320 x 240 |
| Visible screen area | | mm | 115 x 86 |
| Number of colours | | | 256 grey levels |
| Contrast ratio (Normally) | | | Normally 35:1 |
| Brightness | | cd/m ² | Normally 150 |
| Back-lighting | | | 1 x CCFL dimmable via software |
| Service life of back-lighting | | h | Normally 50000 |
| Resistive touch protective screen | | | Touch sensor (glass with foil) |

Operation

| | | | |
|------------|--|--|---------------------------|
| Technology | | | Resistive-Touch 4 wire |
|------------|--|--|---------------------------|

System

| | | | |
|-------------------------------|--|--|--|
| Processor | | | RISC CPU, 32 Bit, 200 MHz |
| Internal memory | | | DRAM (OS-, Program and data memory): 32 MByte Flash (can be used for data backup): approx. 1.5 MByte available NVRAM (retained data): approx. 100 byte available |
| External memory | | | CF-Slot: 1 x CompactFlash Card type I for operating system, programs and data |
| Back-up of real-time clock | | | |
| Battery (service life) | | | Zero maintenance |
| Backup (time at zero voltage) | | | Normally 10 years |

Engineering

| | | | |
|--------------------------|--|--|-----------------|
| Visualisation software | | | GALILEO/EPAM |
| PLC-Programming software | | | XSOFT-CODESYS-2 |

| | | | |
|------------------|--|--|---|
| PLC-licence | | | Can be fitted by user with article no. 140388 LIC-PLC-MXP-LIGHT |
| Operating system | | | Windows CE (license required) |

Interfaces, communication

| | | | |
|---------------------|--|--|--|
| built-in interfaces | | | 1 x Ethernet 100base-TX/10base-T 1 x PROFIBUS/MPI 1 x RS232 1 x CAN |
| USB device | | | USB 1.1, not galvanically isolated |
| RS-232 | | | RS-232, not galvanically isolated (SUB-D plug 9 pole, UNC) |
| CAN | | | CAN, not galvanically isolated (SUB-D plug 9 pole, UNC) |
| Slots | | | for Compact-Flash™ Cards: 1 |

Power supply

| | | | |
|--------------------------------------|-------------------|----|--|
| Nominal voltage | | | 24 V DC SELV (safety extra low voltage) |
| permissible voltage | | | Effective: 19.2-30.0 V DC (rated operating voltage -20%/+25%) Absolute with ripple: 18,0-31,2 V DC Battery powered: 18,0-31,2 V DC (rated operating voltage -25%/+30%) 35 V DC for a duration of < 100 ms |
| Voltage dips | | ms | ≤ 20 ms from rated voltage (24 V DC) 10 ms from undervoltage (20.4 V DC) |
| Power consumption | P _{max.} | W | 8 |
| Heat dissipation | | W | 8 |
| Note on heat dissipation | | | Heat dissipation with power consumption for 24 V, all ports and interfaces connected |
| Protection against polarity reversal | | | yes |
| Type of fuse | | | Yes (zero maintenance) |
| Potential isolation | | | no potential isolation |

General

| | | | |
|---|--|----|--|
| Front type | | | Standard film |
| Weight | | kg | 0.7 |
| Degree of protection (IEC/EN 60529, EN50178, VBG 4) | | | IP65 (at front), IP20 (at rear) |
| Approvals | | | |
| Approvals | | | cUL |
| Explosion protection (according to ATEX 94/9/EC) | | | II 3D Ex II T70°C IP5x: Zone 22, Category 3D (in relation to CE) EN60079-0, EN61241-1, EN13463 |
| Applied standards and directives | | | |
| EMC | | | (in relation to CE) EN 61000-6-2 EN 61000-6-3 EN 61000-6-4 EN 61131-2 |
| Product standards | | | EN 50178 EN 61131-2 |
| Security | | | EN 60950 UL 60950 |
| Mechanical shock resistance | | g | according to IEC 60068-2-27 |
| Vibration | | | To IEC 68-2-6 |

Environmental conditions

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|---------------------|---|----|--------------------------|
| Temperature | | | |
| Storage / Transport | θ | °C | -20 - +60 |
| Relative humidity | | | |
| Relative humidity | | | 10 - 95%, non-condensing |

Supply voltage U_{Aux}

| | | | |
|---------------------|--|--|----|
| Potential isolation | | | No |
|---------------------|--|--|----|

Technical data ETIM 4.0

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|---|--|---|-------|
| Supply voltage AC 50 Hz | | V | 0 - 0 |
| Supply voltage AC 60 Hz | | V | 0 - 0 |
| Supply voltage DC | | V | 0 - 0 |
| Voltage type of supply voltage | | | DC |
| Number of HW-interfaces industrial Ethernet | | | 1 |
| Number of HW-interfaces PROFINET | | | 0 |
| Number of HW-interfaces RS232 | | | 1 |

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|---|--|-------|-------|
| Number of HW-interfaces RS422 | | | 0 |
| Number of HW-interfaces RS485 | | | 0 |
| Number of HW-interfaces serial TTY | | | 0 |
| Number of HW-interfaces USB | | | 1 |
| Number of HW-interfaces parallel | | | 0 |
| Number of HW-interfaces Wireless | | | 0 |
| Number of HW-interfaces other | | | 0 |
| With SW interfaces | | | Yes |
| Supporting protocol for TCP/IP | | | Yes |
| Supporting protocol for PROFIBUS | | | No |
| Supporting protocol for CAN | | | Yes |
| Supporting protocol for INTERBUS | | | No |
| Supporting protocol for ASI | | | No |
| Supporting protocol for EIB | | | No |
| Supporting protocol for MODBUS | | | Yes |
| Supporting protocol for Data-Highway | | | No |
| Supporting protocol for DeviceNet | | | No |
| Supporting protocol for SUCONET | | | No |
| Supporting protocol for LON | | | No |
| Supporting protocol for PROFINET IO | | | No |
| Supporting protocol for PROFINET CBA | | | No |
| Supporting protocol for SERCOS | | | No |
| Supporting protocol for Foundation Fieldbus | | | No |
| Supporting protocol for EtherNet/IP | | | Yes |
| Supporting protocol for AS-Interface Safety at Work | | | No |
| Supporting protocol for DeviceNet Safety | | | No |
| Supporting protocol for INTERBUS-Safety | | | No |
| Supporting protocol for PROFIsafe | | | No |
| Supporting protocol for SafetyBUS p | | | No |
| Supporting protocol for other bus systems | | | Yes |
| Radiostandard Bluetooth | | | No |
| Radiostandard WLAN 802.11 | | | No |
| IO link master | | | No |
| Type of display | | | STN |
| With colour display | | | Yes |
| Display number of colours/grey-scales | | | 256 |
| Screen diagonal | | Inch | 5.7 |
| Max. horizontal resolution, display | | DPI | 320 |
| Max. vertical resolution, display | | DPI | 240 |
| Useful project memory/user memory | | kByte | 32000 |
| With numeric keyboard | | | Yes |
| With alpha numeric keyboard | | | Yes |
| Number of function buttons, programmable | | | 0 |
| With system buttons | | | No |
| Buttons with LED | | | No |
| With touch screen | | | Yes |
| With message indication | | | Yes |
| With message system (incl. buffer and confirmation) | | | Yes |
| Process value representation (output) possible | | | Yes |
| Process default value (input) possible | | | Yes |
| With recipes | | | Yes |
| Number of password levels | | | 200 |
| Printer output available | | | Yes |
| Number of online languages | | | 100 |
| Additional software components, loadable | | | Yes |

| | | |
|---------------------------------------|----|--------|
| Degree of protection (IP), front side | | IP65 |
| Operation temperature range | °C | 0 - 50 |
| Rail mounting possible | | No |
| Wall mounting/direct mounting | | No |
| Suited for safety functions | | No |
| Width of the front | mm | 212 |
| Height of the front | mm | 156 |
| Built-in depth | mm | 50 |

Approvals

| | | |
|--------------------------------------|--|--|
| Product Standards | | UL 60950-01; CSA-C22.2 No. 60950-1; IEC/EN 61131-2; CE marking |
| UL File No. | | E208621 |
| UL Category Control No. | | NWQG2, NWQG8 |
| CSA File No. | | UL report applies to both US and Canada |
| CSA Class No. | | - |
| North America Certification | | UL recognized, certified by UL for use in Canada |
| Conditions of Acceptability | | The investigated Pollution Degree is: 2 The following end-product enclosures are required: Fire, Electrical The unit must be supplied via a SELV source. The provided Ethernet Connection is only allowed to connect to inhouse networks. |
| Specially designed for North America | | No |
| Current Limiting Circuit-Breaker | | No |
| Degree of Protection | | IEC: IP65, UL/CSA Type: - |

Dimensions

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|------------|
| Dimensions |
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Additional product information (links)

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|--|---|
| System description, Windows CE MN05010007Z | |
| Systembeschreibung, Windows CE MN05010007Z - Deutsch | https://es-assets.eaton.com/DOCUMENTATION/AWB_MANUALS/MN05010007Z_DE.pdf |
| System description, Windows CE MN05010007Z - English | https://es-assets.eaton.com/DOCUMENTATION/AWB_MANUALS/MN05010007Z_EN.pdf |
| Product overview (WEB) | http://www.eaton.eu/xv |