> em4

Accessories

Programmable touch panel MTP8/70

- 7" TFT-LCD compact resistive touch panels, 65536 colors, LED backlight
- Graphical resolution: 800 x 480 pixels
- > Wide viewing angle: 70° horizontally and vertically
- Fan-less cooling system
- > Text, data, graphic, animation display
- > Processing of alarms and recipes
- > 400 MHz core logic, 64 MB RAM
-) 128 MB flash memory storage + SD card slot
- Communication with one or up to 31 em4 with the Modbus RS485 Interface ref. 88980120
- > Programmable with user-friendly EB software (compatible with Windows XP/Seven)
-) 2 RS232/RS485 serial ports, USB 1.1 port, USB 2.0 port, Ethernet port
- > Sound output



Programmable touch panel MTP8/70

| Specific Characteristics | | | | | |
|---|------|--|--|------------|--|
| Designation | Size | Programming | Connection | Code | |
| MTP8/70 user kit (MTP8/70, fixing brackets) | 7" | USB-MiniUSB cable or Ethernet RJ45 crossover cable | Modbus RS232/RS485 serial ports, USB port, Ethernet port | 88 970 496 | |

| Accessories | |
|--|------------|
| Description | Code |
| MTP6/50-MTP8/70 programming kit – USB-MiniUSB connection (EB/helpfile CD, USB-MiniUSB cable) | 88 970 501 |
| MTP8/50-MTP8/70 programming kit – Ethernet crossover connection (EB/helpfile CD, RJ45 crossover cable) | 88 970 502 |
| Modbus em4 cable MTP8/70 (need ref. 88 980 120 Modbus RS485 Interface) | |
| Modbus cable DB9 MTP8/70 ↔ RJ45 length 2 m to connect Modbus RS485 Millenium 3 device | 88 970 504 |

| Environmental characteristics | |
|-------------------------------|---|
| Certifications | UL, cUL |
| Conformity to standards | IEC 61000-4 |
| Operating temperature | $0 \rightarrow$ +45 °C |
| Storage temperature | -20 → +60 °C |
| Relative humidity | 10 → 90 % (operation) |
| Protection rating | IP65 - Dust and droplets Front panel seal watertight at standard |
| Vibration resistance | 10 - 25 Hz, 2G 30 minutes in each of the X, Y, Z axes |
| Shock resistance | Free fall from 1 meter in each of the X, Y, Z axes |
| Electrical characteristics | |
| Supply voltage | 24 VDC Internal insulation via transformer |
| Voltage limits | 19,2 → 28,8 VDC |
| Consumption | 7,2 W max. |



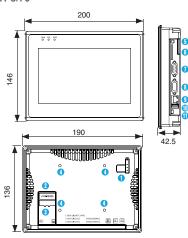


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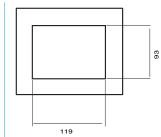
| Mechanical characteristics | | |
|----------------------------|---|--|
| Dimensions (I x h x w) | 200 x 146 x 42.5 mm Useful screen area: 154 x 93 mm | |
| Panel cut-out | 192 x 138 mm Panel thickness 1-10 mm | |
| Mounting | Built-in, fixing by 2 screw clamps (supplied) for 1 to 10 mm panel | |
| Connection | Removable 3-pin screw terminal block (supplied) | |
| Weight | AC 850 g | |
| Display characteristics | | |
| Description | TFT-LCD 7" polychrome, 65536 colors LED backlight Resolution 800 x 480 pixels 400 MHz core logic, 64 MB RAM 128 MB flash memory (programs and recipes backup) SD card memory slot Programmable with EB software Touch panel with user-definable layout Key life: 1 million operations minimum | |
| Display details | Straight lines, free lines, squares, ovals, arcs, polygons, bitmaps, animations.gif, standard fonts | |
| Functions | Buttons, switches, levers, LEDs, messages, data, password-secured buttons, triggers Bar charts, linear gauges, clocks, alphanumeric keyboards, graphics, recipes, alarm lists Text scrolling, multiple windows, data transfer, multiple language, archive | |
| Connection | Programming: PC-MTP8/70 link via USB-MiniUSB cable (accessory) Communication: em4-MTP8/70 link using a Modbus network via the communication cable (supplied) | |
| Real-time clock | Uses em4 clock or built-in clock | |

Diagrams

MTP8/70



Panel cut-out



- 1 DIP SW & Reset button
- 2 Fuse
- 3 Power connector
- 4 VESA 75 mm screw holes
- 6 Audio
- 6 SD card slot
- 7 Com1 RS485, Com3 RS485, Com3 RS232
- 8 Com1 RS232, Com2 RS232
- 9 Ethernet port (RJ-45)
- 10 USB Host port
- USB client port (programmation)



