Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

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› **4.3" TFT-LCD compact resistive touch panels, 65536 colors, LED backlight**

› **Graphical resolution: 480 x 272 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**

› **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)**

› **RS232/RS485 serial port**

› **USB 2.0 port (programming)**



*Programmable touch panel MTP6/50*

## Specific characteristics

| Designation | Size | Programming | Connection | Code |
|---|---|---|---|---|
| MTP6/50 user kit (MTP6/50, fixing brackets) | 4"3 | USB-MiniUSB cable | Modbus RS232/RS485 serial port | 88 970 492 |

## Accessories

| Description | Code |
|---|---|
| MTP6/50-MTP8/70 programming kit – USB-MiniUSB connection (EB/helpfile CD, USB-MiniUSB cable) | 88 970 501 |
| Modbus em4 cable MTP6/50 & MTP8/50 (need ref. 88 980 120 Modbus RS485 Interface) | 88 980 171 |
| Modbus cable DB9 MTP6/50 & MTP8/50 ↔ RJ45 length 2 m to connect Modbus RS485 Millenium 3 device | 88 970 503 |

## General characteristics

### Environmental characteristics

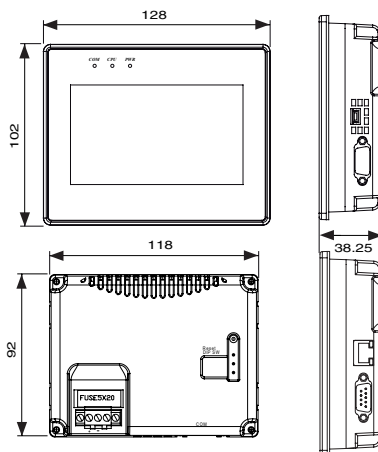| | |
|---|---|
| Certifications | UL, cUL |
| Conformity to standards | IEC 61000-4 |
| Operating temperature | 0 → +45 °C |
| Storage temperature | -20 → +60 °C |
| Relative humidity | 10 → 90 % (operation) |
| Protection rating | IP65 - Dust and droplets<br>Front panel seal watertight at standard |
| Vibration resistance | 10 - 25 Hz, 2G<br>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<br>Internal insulation via transformer |
| Voltage limits | 19,2 → 28,8 VDC |
| Consumption | 7,2 W max. |

**CROUZET AUTOMATION**  |  **em4** ›RemOTE PLC

## Mechanical characteristics

| | |
|---|---|
| Dimensions (l x h x w) | 128 x 102 x 38 mm<br>Useful screen area: 95 x 54 mm |
| Panel cut-out | 119 x 93 mm<br>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 300 g |

## Display characteristics

| | |
|---|---|
| Description | TFT-LCD 4.3'' polychrome, 65536 colors<br>LED backlight<br>Resolution 480 x 272 pixels<br>400 MHz core logic, 64 MB RAM<br>128 MB flash memory (programs and recipes backup)<br>Programmable with EB software<br>Touch panel with user-definable layout<br>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<br>Bar charts, linear gauges, clocks, alphanumeric keyboards, graphics, recipes, alarm lists<br>Text scrolling, multiple windows, data transfer, multiple language, archive |
| Connection | Programming: PC-MTP6/50 link via USB-MiniUSB cable (accessory)<br>Communication: em4-MTP6/50 link using a Modbus network via the communication cable (supplied) |
| Real-time clock | Uses em4 clock or built-in clock |

## Diagrams

### Dimensions (mm)

**MTP6/50**

**Panel cut-out**