

# › em4

## Accessories

### Programmable touch panel MTP6/50

- › 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 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.

### Mechanical characteristics

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

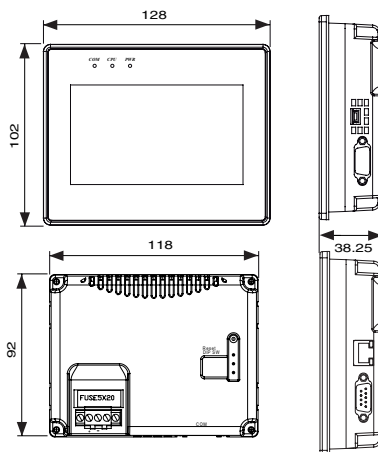
### Display characteristics

Description	TFT-LCD 4.3" polychrome, 65536 colors LED backlight Resolution 480 x 272 pixels 400 MHz core logic, 64 MB RAM 128 MB flash memory (programs and recipes backup) 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-MTP6/50 link via USB-MiniUSB cable (accessory) 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

