› em4

Accessories
Programmable touch panel MTP8/50

- › **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 M Hz core logic, 64 MB RAM**
- › **128 MB flash memory storage**
- › **Communication with one or up to 31 em4 with Modbus RS485 Interface ref. 88980120**
- › **Programmable with user-friendly EB software (compatible with Windows XP/Seven)**
- › **RS232/RS485 serial port**
- › **Ethernet port (programming and communication)**

Programmable touch panel MTP8/50

Specific characteristics

Designation	Size	Programming	Connection	Code
MTP8/50 user kit (MTP8/50, fixing brackets)	4"3	Ethernet RJ45 crossover cable	Modbus RS232/RS485 serial port, Ethernet TCP/IP port	88 970 494

Accessories

Description	Code
MTP8/50-MTP8/70 programming kit – Ethernet crossover connection (EB/helpfile CD, RJ45 crossover cable)	88 970 502
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 2m 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

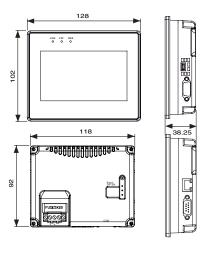|	
Supply voltage	24 VDC Internal insulation via transformer
Voltage limits	19,2 → 28,8 VDC
Consumption	7,2 W max.

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 listsText scrolling, multiple windows, data transfer, multiple language, archive
Connection	Programming: PC-MTP8/50 link via Ethernet RJ45 crossover cable (accessory) Communication: em4-MTP8/50 link using a Modbus network via the communication cable (supplied)
Real-time clock	Uses em4 clock or built-in clock

Diagrams
Dimensions (mm)

MTP8/50

Panel cut-out