

## > HMI Crouzet Touch - Performance Accessories for Millenium EVO & em4

- > TFT-LCD resistive touch screen
- > Ultra-slim format
- > Built-in isolated RS-485
- > PCB Coating Protection
- > Direct communication with M3 programming port
- > Modbus RS485 protocol (drivers for M3 and em4)
- > Modbus TCP/IP protocol (drivers for M3 and em4)
- > Integrated VNC server
- > Additional functions provided by Crouzet Touch programming software (e-mails,recipe database, enhanced security...)

Selection guide			
Туре	Size	Part number	
CTP104-E	4.3"	88 970 554	
CTP107-E	7"	88 970 564	
CTP110-E	9.7"	88 970 574	

Accessories	
Description	Part number
Modbus RTU RS485 interface to CTP104-E	88 980 171
Modbus RTU RS485 interface to CTP107-E and CTP110-E	88 980 172
Modbus RTU RS485 Millenium 3 expansion to CTP104-E	88 970 503
Modbus RTU RS485 Millenium 3 expansion to CTP107-E and CTP110-E	88 970 503
Crouzet Touch Soft + programmation cables	88 970 591

	CTP104-E	СТР107-Е	CTP110-E
Specific characteristics			
Part number	88 970 554	88 970 564	88 970 574
Туре	CTP104-E	CTP107-E	CTP110-E
Size	4.3"	7"	9.7"
Resolution	480 x 272	800 x 480	1024 x 768
Brightness	400 cd/m <sup>2</sup>		350 cd/m <sup>2</sup>
On front panel color	Pantone Process Black C, Blue Pantone 285C		
Power consumption	300 mA @ 24 V, 88 mA @ 24V (backlight OFF)	450 mA @ 24 V, 92 mA @ 24V (backlight OFF)	650 mA @ 24 V, 162 mA @ 24V (backlight OFF)
Colors	16.7 M		262 K
LCD viewing angle (Top/Bottom/Left/Right)	30/50/50/50	70/50/70/70	60/70/70/70
Processor	32Bit RISC Cortex-A8, 600 MHz		32Bit RISC Cortex-A8, 1 GHz
Storage memory	128 MByte		512 MByte
RAM memory	128 MByte		256 MByte
USB	Host USB 2.0		
Ethernet	RJ45 type, 10/100 Mbit/s, MDI/MDIX		2 x RJ45 type, 10/100/1000 Mbit/s, MDI/MDIX



CTP104-E

Performance



СТР107-Е

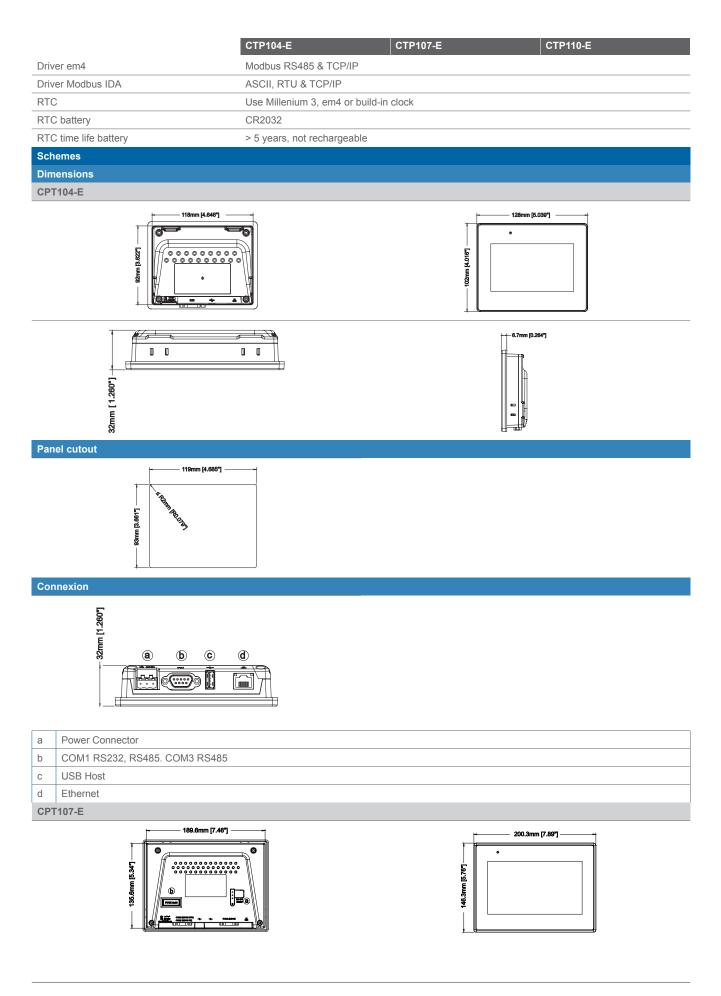
Performance

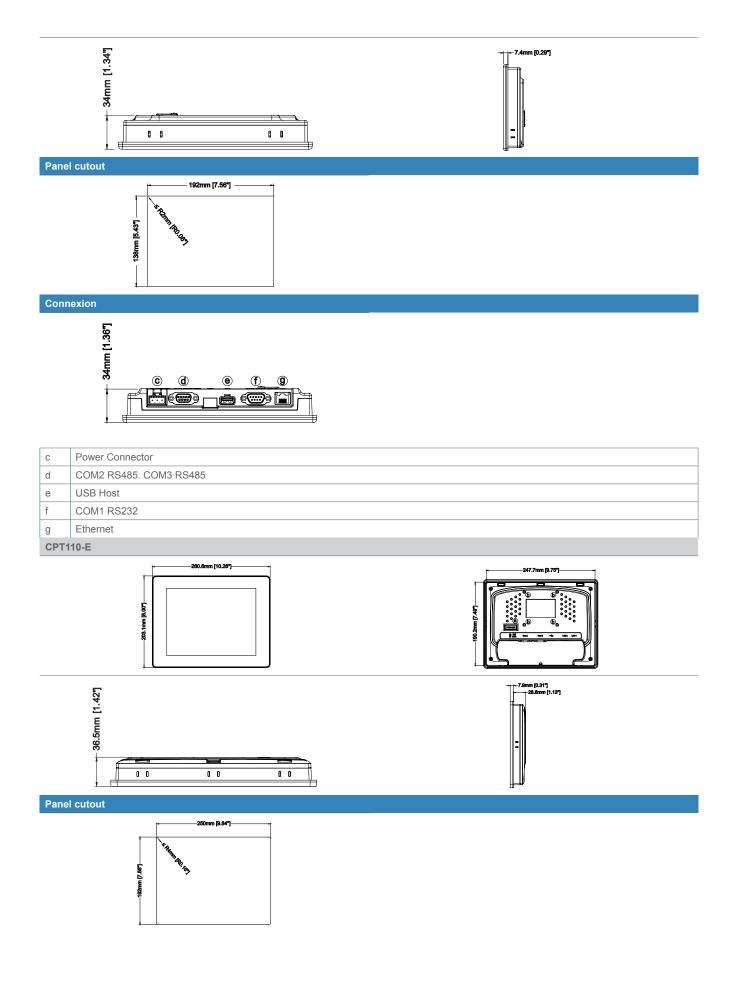


CTP110-E Performance

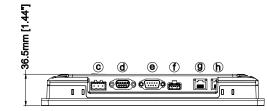


	CTP104-E	СТР107-Е	CTP110-E	
Port RS232	COM1 male		COM1 male, COM3 male.	
			Only Tx & Rx (no RTS/CTS) may be used for COM1 when COM3 is also used.	
Port RS485	COM1 2/4 Wires male, COM3 2	Wires male	COM2 2/4 Wires female, COM3 2 Wires female	
CAN bus	N/A		CANopen Protocol	
UL Certification	cULus Listed		N/A	
Weight	Approximately 0.25 kg	Approximately 0.6 kg	Approximately 0.85 kg	
Dimensions (W x H x D)	128 x 102 x 32 mm / 5.04 x 4.02 x 1.26"	200.3 x 146.3 x 34 mm / 7.89 x 5.77 x 1.34 "	260.6 x 203.1 x 36.5 mm /10.26 x 8 x 1.44 "	
Vesa Mount	N/A		75 x 75 mm / 2.95 x 2.95"	
Panel cutout	119 x 93 mm / 4.69 x 3.66"	192 x 138 mm / 7.56 x 5.43 "	250 x 192 mm / 9.84 x 7.56 "	
PCB Coating	Yes			
General characteristics				
Enclosure	Plastic			
Products certification	CE			
Nominal voltage	24 V (-20% / +20%)			
Operating limits	19.2 - 28.8 V			
Power isolation	Yes			
Power supply earthing	Yes			
Voltage resistance	500 V~ (1 minute)			
Isolation resistance	> 50 Mohms at 500 V			
Vibration endurance	10 to 25 Hz (X,Y,Z direction 2G	30 minutes)		
Conducted and radiated emissions	EN 55022: 2010 +AC: 2011 class A CISPR 22: 2008	EN 55022: 2010 +AC: 2011 class B CISPR 22: 2008	EN 55022: 2010 +AC: 2011 class A CISPR 22: 2008	
Electro-Magnetic Interference, harmonic current	EN 61000-3-2: 2014	1	1	
Electro-Magnetic Interference, voltage flicker	EN 61000-3-3: 2013			
Resistance to electrostatic discharge	Immunity to ESD IEC/EN 61000-4-2: 2008			
Resistance to HF interference (Immunity) (EN55024: 2010)	Immunity to radiated electrostatic fields IEC/EN 61000-4-3: 2010 Immunity to fast transients (burst immunity) IEC/EN 61000-4-4: 2012 Immunity to shock waves IEC/EN 61000-4-5: 2014 Radio frequency in common mode IEC/EN 61000-4-6: 2013 Immunity to magnetic field IEC/EN 61000-4-8: 2009			
Voltage dip, interruption	IEC/EN 61000-4-11: 2004			
Protection against electric shock	Class II equipment			
Mount	Built-in, fixing by screw clamps (	supplied) for 1 to 6 mm panel		
Connection	Removable 3-pin screw terminal	block (supplied)		
Protection rating	NEMA4 / IP 65 Compliant front p	banel		
Operation temperature	0 (32 °F) $\rightarrow$ +50 °C (122 °F)			
Storage temperature	-20 (-4 °F) → +60 °C (140 °F)			
Relative humidity	$10 \rightarrow 90\%$ max. (no condensation or dripping water)			
Display				
Туре	TFT LCD			
Contrast ratio	500: 1			
Backlight type	Led			
Backlight life time	> 30.000 Hours			
Touch panel: type	4 wires resistive, with user-defin	4 wires resistive, with user-definable layout		
Touch panel: key life	1 million operations minimum			
Accuracy	Active Area Length(X)±2%, Width(Y)±2%			
	SLIN/SLOUT 24 V, XN05, XN06			





## Connexion



с	Power Connector
d	COM2 RS485. COM3 RS485
е	COM1 RS232. COM3 RS232
f	USB Host
g	Ethernet LAN 2
h	Ethernet LAN 1

## Warning:

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