

› HMI Crouzet Touch - Essential

Accessories for Millenium 3, Millenium EVO and em4

- › TF T-LCD resistive touch screen
- › 16.7 M colors display
- › New processor for faster data processing & displaying
- › Built-in RTC
- › Direct communication with Millenium 3 programming port (dedicated driver for SLin/SLout)
- › Modbus RS485 protocol (dedicated drivers for M3, MEVO and em4 controllers)
- › CE mark



CT104
Essential



CT107
Essential

Product selection		
Type	Size	Part number
CT104	4.3"	88 970 524
CT107	7"	88 970 534

Accessories	
Type	Part number
Modbus RTU RS485 cable to Interface	88 980 171
Modbus RTU RS485 cable to Millenium 3 expansion	88 970 503
Crouzet Touch Soft + programming cables	88 970 591

	CT104	CT107
Specific characteristics		
Part number	88 970 524	88 970 534
Type	CT104	CT107
Size	4.3"	7"
Resolution	480 x 272	800 x 480
Brightness	400 cd/m ²	300 cd/m ²
On front panel color	Pantone Process Black C	
Power consumption max / min	400 mA @ 24 V, 85 mA @ 24V (backlight OFF)	500 mA @ 24 V, 94 mA @ 24V (backlight OFF)
Colors	16.7 M	16 M
LCD viewing angle (Top/Bottom/Left/Right)	50/70/70/70	70/50/70/70
Processor	32 Bit RISC Cortex-A8, 600 MHz	32 Bit RISC Cortex-A8, 600 MHz
Storage memory	128 MByte	
RAM memory	128 MByte	
USB	Client micro USB 2.0	Host USB 2.0, Client micro USB 2.0
Ethernet	N/A	
Port RS232	COM1 male	
Port RS485	COM1 2/4 Wires male, COM3 2 Wires male	COM2 2/4 Wires male
CAN bus	N/A	
UL certification	N/A	
Weight	Approximately 0.25 kg	Approximately 0.52 kg
Dimensions (W x H x D)	128 x 102 x 32 mm / 5.04 x 4.02 x 1.26"	200.4 x 146.5 x 34 mm / 7.89 x 5.77 x 1.34"
Vesa Mount	N/A	
Panel cutout	119 x 93 mm / 4.69 x 3.66"	192 x 138 mm / 7.56 x 5.43"
PCB Coating	N/A	

CT104

CT107

General characteristics

Enclosure	Plastic
Products certification	CE
Nominal voltage	12/24 V _{DC}
Operating limits	10.5 - 28 V _{DC}
Power isolation	Yes
Power supply earthing	Yes
Voltage resistance	500 V _~ (1 minute)
Isolation resistance	> 50 Mohms at 500 V _{DC}
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
Electro-Magnetic Interference, harmonic current	EN 61000-3-2: 2014
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 I 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 panel
Operation temperature	0 (32 °F) → +50 °C (122 °F)
Storage temperature	-20 (-4 °F) → +60 °C (140 °F)
Relative humidity	10 → 90% max. (no condensation or dripping water)

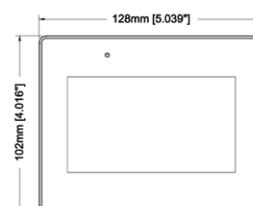
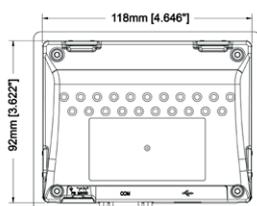
Display

Type	TFT LCD
Contrast ratio	500: 1
Backlight type	Led
Backlight life time	> 30.000 Hours
Touch panel: type	4 wires resistive, with user-definable layout
Touch panel: key life	1 million operations minimum
Accuracy	Active Area Length(X)±2%, Width(Y)±2%
Driver Millenium 3	SLIN/SLOUT 24 → _{DC} , XN06
Driver em4	Modbus RS485
Driver Modbus IDA	ASCII, RTU
RTC	Use Millenium 3, em4 or build-in clock
RTC battery	CR2032
RTC time life battery	> 5 years, not rechargeable

Schemes

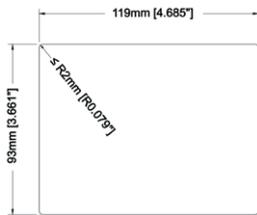
Dimensions

CT104

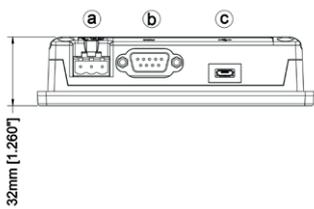




Panel cutout



Connections

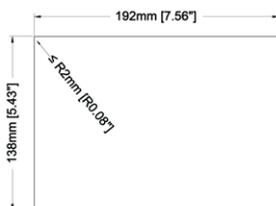


a	Power Connector
b	COM1 RS232, RS485. COM3 RS485
c	µUSB

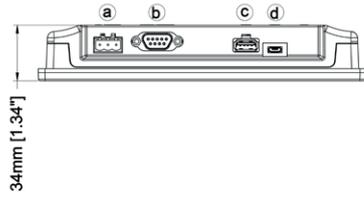
CT107



Panel cutout



Connections



a	Power Connector
b	COM1 RS232, RS485. COM2 RS485
c	USB Host
d	µUSB

Warning:

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