> 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, UKCA marks



CT104 Essential



CT107

Essential

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

Accessories		
Interface and Expansions	Part number	
Modbus RTU RS485 Interface with Polarization Inside	88 980 122	
Modbus RTU RS485 Interface without Polarization Inside	89 980 123	
Modbus RTU RS485 Millenium 3 expansion	88 970 250	
Ethernet Millenium 3 expansion	88 970 270	
Cables	Part number	
Modbus RTU RS485 cable to Interface	88 980 171	
Modbus RTU RS485 cable to Millenium 3 expansion	88 970 503	
Ethernet cable for em4 / Millenium EVO/ Millenium 3	89 970 508	
Crouzet Touch Soft + programmation cables	88 970 591	

	CT104	CT107
Specific characteristics		
Part number	88 970 524	88 970 534
Туре	CT104	CT107
Size	4.3"	7"
Resolution	480 x 272	800 x 480
Brightness	400 cd/m ²	300 cd/m²
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	
Storage memory	128 MByte	
RAM memory	128 MByte	
USB	New version: USB 2.0 "HOST" (from Serial No. 1808101955)	New version: USB 2.0 "HOST" (from Serial No. 2101281237)
	Previous version: Micro USB 2.0 "CLIENT"	Previous version: Micro USB 2.0 "CLIENT" and USB 2.0 "HOST"



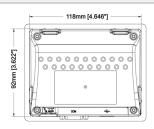
	CT104	CT107
Ethernet	New version: RJ45 type, 10/100 Mbit/s, MDI/ MDIX 0 (from serial No.1808101955 A) Previous version: N/A	New version: RJ45 type, 10/100 Mbit/s, MDI/ MDIX 0 (from serial No. 2101281237) Previous version: N/A
Port RS232	COM1 male	
Port RS485	COM1 2/4 Wires male, COM3 2 Wires male	COM2 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	
General characteristics		
Enclosure	Plastic	
Products certification	CE, UKCA	
Nominal voltage	12/24 V	
Operating limits	10.5 - 28 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	
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: 2	
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 t	o 6 mm panel
Connection	Removable 3-pin screw terminal block (supplied	l)
Protection rating	NEMA4 / IP 65 Compliant front panel	
Operation temperature	$0 (32 \degree F) \rightarrow +50 \degree C (122 \degree F)$	
Storage temperature	-20 (-4 °F) → +60 °C (140 °F)	
Relative humidity	$10 \rightarrow 90\%$ max. (no condensation or dripping w	ater)
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-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 V, XN06	
Driver em4	Modbus RS485	

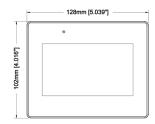
	CT104	CT107
Driver Modbus IDA	ASCII, RTU	
RTC	Use Millenium 3, em4 or build-in clock	
RTC battery	CR2032	
RTC time life battery	> 5 years, not rechargeable	

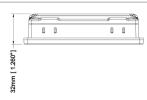
Schemes

Dimensions

CT104

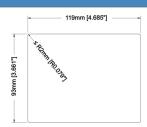




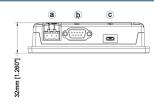




Panel cutout

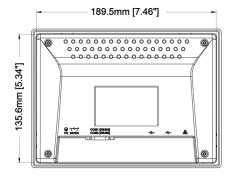


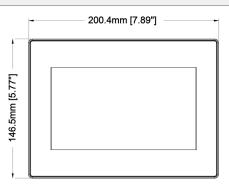
Connections



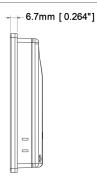
а	Power Connector
b	COM1 RS232, RS485. COM3 RS485
С	μUSB

CT107

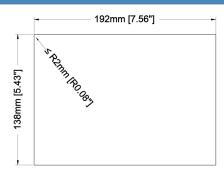








Panel cutout



Connections



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

Warning: