cMT2128X series

Installation Instruction

1 Installation and Startup Guide

This document covers the installation of cMT2128X Series HMI, for the detailed specifications and operation, please refer to Datasheet, Brochure and EasyBuilder Pro User Manual. Please read all warnings, precautions, and instructions on the device carefully before use.

Install Environment:

NEMA Rating	The HMI product is NEMA 4 rated (indoor use only).
Electrical Environment	The HMI product has been tested to conform to European CE requirements. This means that the circuitry is designed to resist the effects of electrical noise. This does not guarantee noise immunity in severe cases. Proper wire routing and grounding will insure proper operation.
Environmental Considerations	(1) Make sure that the displays are installed correctly and that the operating limits are followed. Avoid installing units in environments where severe mechanical vibration or shocks are present. (2) Do not operate the unit in areas subject to explosion hazards due to flammable gases, vapors or dusts. (3) Do not install the unit where acid gas, such as SO2 exists. (4) This device should be mounted in the vertical position and for use on the flat surface enclosure. (5) For use in Pollution Degree 2 Environment and dry location. (6) Relative Humidity: 10% ~ 90% (non-condensing)
Cleaning Considerations	Clean the device using dry cloths. Do not use liquid or spray detergents for cleaning.
IP Rating	IP 66
⚠ Warning	Protection impairment if used in a manner not specified by the manufacturer. Déficit de protection si utilisé d'une manière non spécifiée par le fabricant.

2 Unpacking the Unit

Unpack and check the delivery. If damage is found, please contact the supplier.

NOTE: Place the operator panel on a stable surface during installation. Dropping it or letting it fall may cause damage.

The package includes:
(1) Installation Instruction, 2-sided A4 *1 (2) Human Machine Interface *1 (3) Power Connector *1
(4) Brackets & Screws *1 pack (5) Fuse 1.6A/250V 5*20mm *1

3 Installation Instructions

Use a control box that provides enoug
Cutout Dimension: 305 mm x 231 mm
operator panel in position, using all the
and the provided brackets and screws
2.6 ~ 3.9 lbf.in. (For reaching waterpro
preventing the panel from being defor
Plan for adequate space around the u
enclosure, for ventilation and cables. O
from other devices inside the enclosur
temperature around the unit must be 0
Minimum required clearances (along t
Bottom / Sides 15 mm
Maximum panel thickness: 4.5 mm

4 Power Connections

⚠ Power Connector Specifications:
Wire AWG: 24~12
Wiring Conductor Minimum Tempe
Screw Torque: 4.5 lbf-in (max.)
Copper conduct only.

NOTE:
**1. Connect positive DC line to the '+
ground to the '-' terminal.**
**2. When downloading project using
connect HMI with PLC and PC simu
potential difference may result in da**

5 System Settings

When HMI is powered up and displays
the round Start Button in the upper-lef
screen to open the Setting dialog box.
icon 🔒 and log in. (Default System F
111111)
Go to the Network tab, and setup your
In Setting dialog box you can see devi
configure general settings, set HMI Tir
and more.

6 EasyBuilder Pro Softwa

Launch EasyBuilder Pro software, sel
dialog box: Select Ethernet > IP tab >
file to HMI.
Using screensaver and backlight save
by displaying the same image on HMI
(Please refer to EasyBuilder Pro User

7 Communication Connections

NOTE:
1. **Only Tx & Rx (no RTS/CTS) may be used for COM1 RS-232 when COM3 RS-232 is also used.**
2. **COM2 and COM3 RS-485 2W support MPI 187.5K, please use one at a time.**

(1 2 3 4 5 / 6 7 8 9) Con.B

COM1/COM3 [RS232] 9 Pin, Male, D-sub

PIN#	COM1 [RS232]4W	COM3 [RS232]2W
1		
2	RxD	
3	TxD	
4		
5	GND	
6		
7	RTS	TxD
8	CTS	RxD
9	GND	

(5 4 3 2 1 / 9 8 7 6) Con.A

COM2/COM3 [RS485] 9 Pin, Female, D-sub

PIN#	COM2 [RS485]2W	COM2 [RS485]4W	COM3 [RS485]2W
1	Data-	Rx-	
2	Data+	Rx+	
3		Tx-	
4		Tx+	
5	GND (isolation)		
6			Data-
7			
8			
9			Data+

8 Touchscreen Calibration & Restore Factory Default

Touchscreen Calibration:
Press and hold anywhere on the screen when HMI starts until it enters touchscreen calibration mode.

Restore Factory Default:
Follow Step 5 to open the Setting dialog box. Go to "Reset options" tab, press the button of "Reset HMI to default". An Attention window shows, enter "yes".
Another way to restore factory default is entering "default111111" when logging in. An Attention window shows, enter "yes".
Please note that the projects and data stored in the unit are all cleared after pressing this button.

9 Battery Replacement

Battery Specification: Type CR2032, Rated 3V
Battery replacement shall be performed by qualified personnel (engineer) only and care must be taken when handling lithium batteries. For more information on battery replacement and disposal considerations, please refer to the following link:
http://www.weintek.com/download/MT8000/eng/FAQ/FAQ_103_Replace_Battery_en.pdf

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CAUTION

NOTE: Make
installing the u

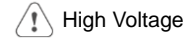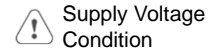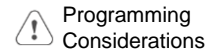|	
⚠ Power	Use power output powered by DC p systems. The pow supply. The peak s
⚠ Fusing Requirements	Fuse min. rating: 1 within 5 seconds c of the DC power is Replacing fuse sha http://www.weintek
⚠ High Voltage	An Internal fuse w voltage sources sh
⚠ Emergency Stop	A Hard-wired EME ICS Safety Recom
⚠ Supply Voltage Condition	Do not power the u power supply. Note power the unit.
⚠ Wire Routing	a. Power wire len b. Please use tw impedance ma c. If wiring is to b devices. d. Keep AC, high e. Add a resistor supply and the dissipation. Ty
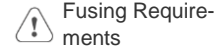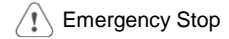
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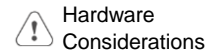
⚠ Hardware Considerations	The system desig thereby create ar interface can lead physical injury to th If you use any pr potential safety ha steps depend on installation of soli installation of Cont
⚠ Programming Considerations	To conform to ICS ensure that all wr checks built into th personnel.

Limited Warranty

This product is limited warranted ag
The proven defective product will e
This warranty shall not cover any p
(a) Out of warranty period which is 12 month
(b) Damage caused by Force Majeure, acci
(c) Product has been repaired or taken apar
(d) Products whose identification markings h