cMT-SVRX series

Installation Instruction

1 Installation and Startup Guide

This document covers the installation of cMT-SVRX Series, 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:

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 units 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 20
⚠ 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, notify the supplier.

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

(1) Installation Instruction, A4 double sided *1
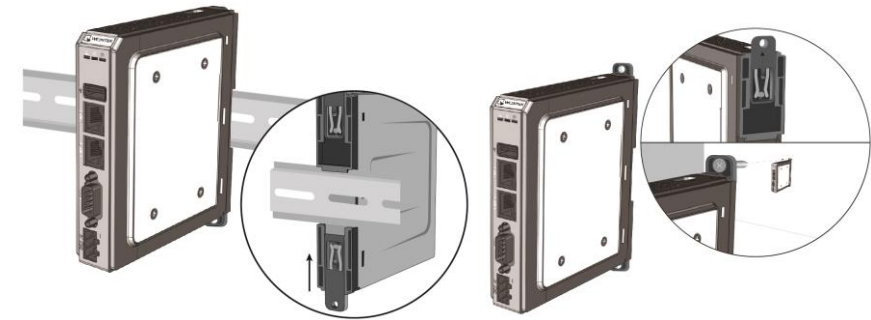(2) Power Connector *1
(3) cMT-SVRX *1

3 Installation Instructions

Rail mounting: DIN rail 35mm
Panel mounting: Use two M4 or #8 panhead screws, mounting hole size is 4.6mm
Plan for adequate space around the unit and inside the enclosure, for ventilation and cables. Consider the heat from other devices inside the enclosure. The ambient temperature around the unit must be 0 ~ 50°C. The aluminum flat-sheet at the back of the unit is a heat sink. Please be careful not to touch the heat sink since its heat can rise to 70°C in maximum when the unit is running. Planning for a 3cm space between the unit and other devices is recommended.

4 Power Connections

⚠ Power Connector Specifications:
Wire AWG: 24~12
Wiring Conductor Minimum Temperature: 75°C
Screw Torque: 4.5 lbf-in (max.)
Copper conduct only.

Spécifications du connecteur d'alimentation:
AWG de fil: 24 ~ 12
Température minimale du conducteur de câblage: 75°C
Couple de vis: 4.5 lbf-in (max.)
Conducteur en cuivre seulement

NOTE: Connect positive DC line to the '+' terminal and the DC ground to the '-' terminal.

24VDC FG

5 System Settings

Connect cMT-SVRX with a router using a RJ-45 cable, launch EasyBuilder Pro on your computer, open Download window to find this cMT-SVRX.

After connecting cMT-SVRX successfully, enter the IP address of this cMT-SVRX in the browser to open the System Settings page, and then enter the default password "111111" to log in and configure cMT-SVRX.

Browser
IP// 192.168...
Ethernet
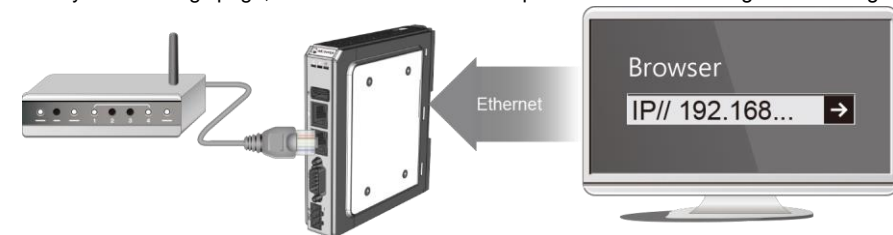
6 EasyBuilder Pro Software Settings

Launch EasyBuilder Pro software, select your project file, press F7 shortcut key to open the download dialog box: Select Ethernet > HMI Name tab > Select your cMT-SVRX > Click Download to download this project file to cMT-SVRX.
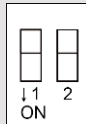(Please refer to EasyBuilder Pro User Manual for software operation details)

7 Communication Connection

NOTE: COM2 and COM3 [RS485] support MPI 187.5K, please use one at a time.

9 Pin, Male, D-sub
COM1 [RS232]
COM2 [RS485]
COM3 [RS485]

```
1 2 3 4 5
 6 7 8 9
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PIN#	COM1 [RS-232] 2W	COM2 [RS-485] 2W	COM2 [RS-485] 4W	COM3 [RS-485] 2W
1				Data+
2	RxD			
3	TxD			
4				Data-
5	GND			
6		Data+	Rx+	
7		Data-	Rx-	
8			Tx+	
9			Tx-	

8 DIP SW Settings

Turn ON SW1 and power the unit again, the IP setting is restored to default:
Ethernet 1: DHCP
Ethernet 2: 192.168.100.1
When restore factory default, the projects and data stored in the unit are all cleared.
Pressing the Reset button can reboot the unit.

```
↓1  2
ON
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SW1	SW2	Mode
OFF	OFF	Normal Mode
ON	OFF	Restore Ethernet IP Settings
OFF	ON	Update OS
ON	ON	Restore Factory Default

9 Battery Replacement

Battery Specification: Type CR1220, 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

CAUTION	
	NOTE: Make sure that all local and national electrical standards are met when installing the unit. Contact your local authorities to determine which codes apply.
⚠ Power	Use power output that meets SELV (Safety Extra-Low Voltage) requirements. The unit can be powered by DC power only, voltage range: 24±20%, compatible with most controller DC systems. The power conditioning circuitry inside the unit is accomplished by a switching power supply. The peak starting current can be as high as 2A.
⚠ Fusing Requirements	If the Power LED does not light up immediately after power up, remove power. A resettable fuse will protect against overcurrent faults in DC circuit and the resetting will take place after a period of time. Check wiring for proper connections and try to power up again.
⚠ High Voltage	A resettable fuse will prevent damage for overcurrent condition however it isn't guaranteed. DC voltage sources should provide proper isolation from main AC power and similar hazards.
⚠ Emergency Stop	A Hard-wired EMERGENCY STOP should be fitted in any system using an HMI to comply with ICS Safety Recommendations.
⚠ Supply Voltage Condition	Do not power the unit and inductive DC loads, or input circuitry to the controller, with the same power supply. Note: The 24 VDC output from some controllers may not have enough current to power the unit.
⚠ Wire Routing	a. Power wire length should be minimized (Max: 500m shielded, 300m unshielded). b. Please use twisted pair cables for power wire and signal wire and conform to the impedance matching. c. If wiring is to be exposed to lightning or surges, use appropriate surge suppression devices. d. Keep AC, high energy, and rapidly switching DC power wiring separated from signal wires. e. Add a resistor and capacitor in the parallel connection between the ungrounded DC power supply and the frame ground. This provides a path for static and high frequency dissipation. Typical values to use are 1M Ohm and 4700pF.

DANGER	
⚠ Hardware Considerations	The system designer should be aware that devices in Controller systems could fail and thereby create an unsafe condition. Furthermore, electrical interference in an operator interface can lead to equipment start-up, which could result in property damage and/or physical injury to the operator. If you use any programmable control systems that require an operator, be aware that this potential safety hazard exists and take appropriate precautions. Although the specific design steps depend on your particular application, the following precautions generally apply to installation of solid-state programmable control devices, and conform to the guidelines for installation of Controllers recommended in NEMA ICS 3-304 Control Standards.
⚠ Programming Considerations	To conform with ICS Safety Recommendations, checks should be placed in the controller to ensure that all writable registers that control critical parts of plant or machinery have limit checks built into the program, with an out-of-limit safe shut down procedure to ensure safety of personnel.

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Limited Warranty

This product is limited warranted against defects in design and manufacture. The proven defective product will either be repaired or replaced, at Weintek's discretion. This warranty shall not cover any product which is
(a) Out of warranty period which is 12 months from the manufacturing month of the HMI products.
(b) Damage caused by Force Majeure, accident, negligence, improper installation or misuse.
(c) Product has been repaired or taken apart by unauthorized technicians.
(d) Products whose identification markings have been removed or damaged.