

cMT-SVR series

Installation Instruction

1 Installation and Startup Guide

This document covers the installation of cMT-SVR 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 cMT-SVR Series 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 SO ₂ 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)
Altitude	3,000 m
IP rating	IP 20
Cleaning Considerations	Clean the device using dry cloths. Do not use liquid or spray detergents for cleaning.
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.

The package includes:

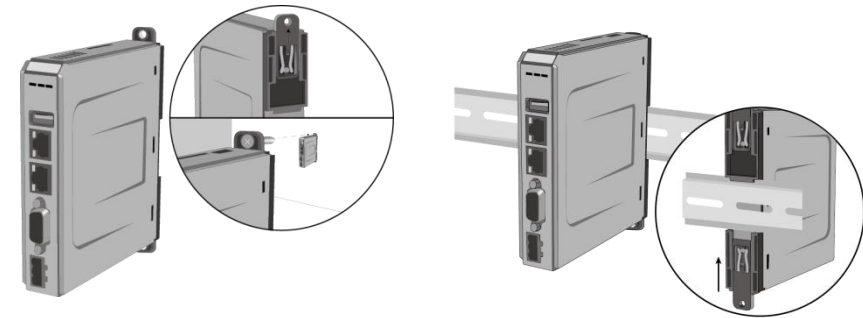
- (1) Installation Instruction, 2-sided A4 *1
- (2) cMT-SVR *1
- (3) Power Connector *1

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 -20 ~ 55°C

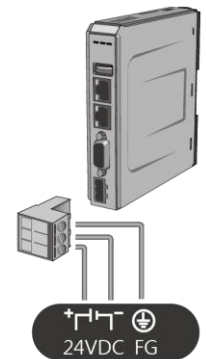


4 Power Connections

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.

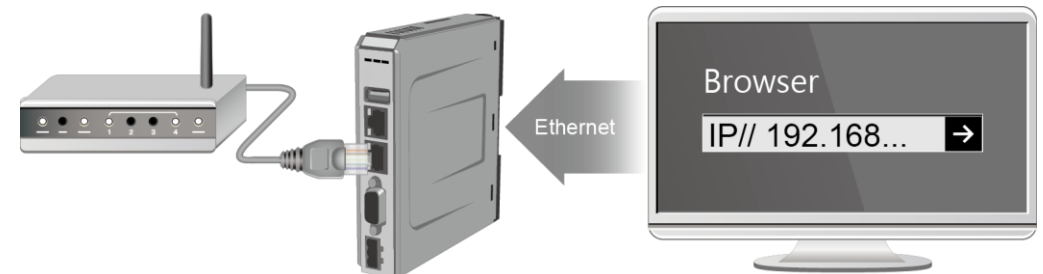


5 System Settings

The cMT-SVR can be connected in the following ways:

Using Ethernet 1 Connection: Connect the cMT-SVR to the router using an RJ-45 Ethernet cable. Launch EasyBuilder Pro on the PC, follow section 6 instructions to access the download window, and find the cMT-SVR to obtain its IP address. Enter this IP address in a web browser to access the system settings page, where the default password "111111" can be used to log in and configure the device.

Using Ethernet 2 Connection: Connect the cMT-SVR to the PC using an RJ-45 Ethernet cable, and set the PC's IP address to 192.168.100.2. In a web browser on the PC, enter the IP address 192.168.100.1. After successfully connecting to the cMT-SVR, the system settings page will be accessible, where the default password "111111" can be used to log in and configure the device.



6 EasyBuilder Pro Software Settings

Launch EasyBuilder Pro software, select your project file, press F7 to open the download dialog box: Select Ethernet > IP tab > Enter your cMT-SVR IP > Click Download to download this project file to cMT-SVR. Flash memory has a limited write lifespan, and frequent data writing (e.g., Event Log, Data Sampling) can accelerate degradation. Consider write frequency and lifespan management in system design to prevent data loss. Refer to "3.2.1. Prolong the Lifespan of Flash Memory" in the Product Security User Manual for guidance.

(Please refer to EasyBuilder Pro User Manual for software operation details.)

7 Communication Connection

NOTE:

1. COM2 and COM3 [RS485] 2W support MPI 187.5K, please use one at a time.
2. Use #4-40 UNC screws for the D-SUB connector installation.

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

1 2 3 4 5
6 7 8 9

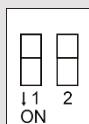
PIN#	COM1 [RS-232] 2W	COM2 [RS-485]		COM3 [RS-485] 2W
		2W	4W	
1				Data+
2	RxD			
3	TxD			
4				Data-
5	GND			
6		Data+	Rx+	
7		Data-	Rx-	
8			Tx+	
9			Tx-	

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



SW1	SW2	Mode
OFF	OFF	Normal Mode
ON	OFF	Restore Ethernet IP Settings
OFF	ON	Boot Loader Mode
ON	ON	Restore Factory Default

When restoring factory defaults, all projects and data stored in the unit will be cleared.

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 500mA.



Fusing Requirements

If the display does not come on within 5 seconds of 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 to 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.