# 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 Brochure and EasyBuilder Pro User Manual.

#### **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	<ol> <li>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.</li> <li>Do not operate the unit in areas subject to explosion hazards due to flammable gases, vapors or dusts.</li> <li>Do not install the unit where acid gas, such as SO2 exists.</li> <li>This device should be mounted in the vertical position and for use on the flat surface enclosure.</li> <li>Conform to UL508 (ISBN 0-7629-0404-6) machine safety for use in Pollution Degree 2 Environment.</li> <li>Relative Humidity: 10% ~ 90% (non-condensing)</li> </ol>		

### 2 Unpacking the Unit

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

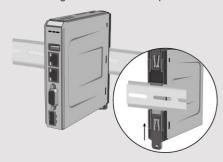
NOTE: Place the unit on a stable surface during installation. Dropping it or letting it fall may cause damage.

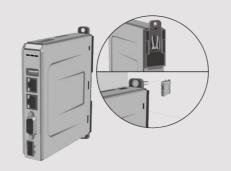
- (1) Installation Instruction, A4 double sided \*1
- (2) Power Connector \*1
- (3) cMT-SVR \*1

### 3 Installation Instructions

Rail mounting: DIN rail 35mm

Panel mounting: Use two M4 or #8 panhead screws, mounting hole size is 4.6mm





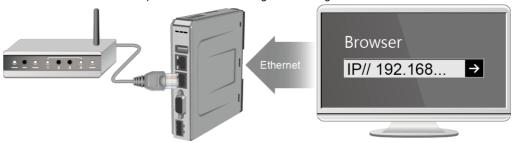
### 4 Power Connections

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



### 5 System Settings

Connect cMT-SVR with a router via RJ-45 Ethernet cable. Launch Cloud EB Pro on PC or iPad, find the cMT-SVR and use the default password "111111" to log in and configure.



Click the System Settings button and configure cMT-SVR.

The interface can be used to download or upload project files.



# 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 > IP tab > Enter your cMT-SVR IP > Click Download to download this project file to cMT-SVR.

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

This device is preloaded with EasyWeb 2.0 and thus requires EasyBuilder Pro V6.04.01 or later. For further assistance, please contact Maple Systems.

## **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

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

#### **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

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

# 9 Battery Replacement

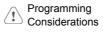
Battery replacement shall be performed by qualified personnel only and care must be taken when handling lithium batteries.

#### NOTE: Make sure that all local and national electrical standards are met when **CAUTION** installing the unit. Contact your local authorities to determine which codes apply. The unit can be powered by DC power only, voltage range: 24±20% Volts DC, compatible with Power 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. DC voltage sources should provide proper isolation from main AC power and similar hazards. /!\ High Voltage A Hard-wired EMERGENCY STOP should be fitted in any system using an HMI to comply with **Emergency Stop** ICS Safety Recommendations. Do not power the unit and inductive DC loads, or input circuitry to the controller, with the same Supply Voltage power supply. Note: The 24 VDC output from some controllers may not have enough current to Condition power the unit. 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 Wire Routing d. Keep AC, high energy, and rapidly switching DC power wiring separated from signal wires. e. 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** The system designer should be aware that devices in Controller systems could fail and physical injury to the operator.

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

Hardware Considerations

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.



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

A copy of the Warranty and Limitation of Liability is contained in the product box. It can also be found on the Maple Systems website.

