# **cMT-FHDX** series

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### Installation Instruction

### **1** Installation and Startup Guide

This document covers the installation of cMT-FHDX 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:

	The HMI product has been tested to conform to European CE requirements. This		
Electrical	means that the circuitry is designed to resist the effects of electrical noise. This		
Environment	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 UL 61010-2-201 safety requirement for use in Pollution Degree 2 Environment and dry location.</li> <li>Relative Humidity: 10% ~ 90% (non-condensing)</li> </ol>		
Cleaning			
Considerations			
IP rating	IP 20		
① 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.

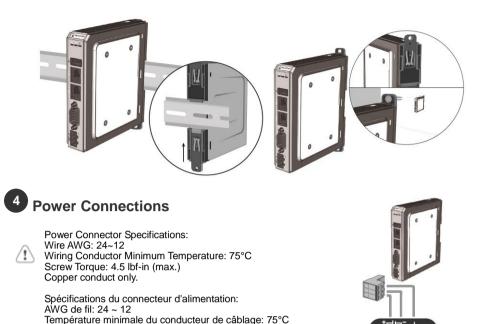
The package includes: (1) Installation Instruction, A4 double sided \*1 (2) cMT-FHDX\*1 (3) Power Connector \*1

### **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 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.



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

5 System Settings

Connect cMT-FHDX with TV via HDMI<sup>™</sup> cable.

Couple de vis: 4.5 lbf-in (max.) Conducteur en cuivre seulement





When cMT-FHDX is powered up and TV displays image, click the system setting button. (Default System Password: 111111) RJ-45 cable is necessary for connecting cMT-FHDX to your network.



Go to the Network tab, you may choose to automatically get DHCP IP, or designate your own IP.

<b>B</b> Setting		Ethernet1 Ok
System setting	MAC address	00:0c:26:0f:e6:b2
Information	Obtain an IP address	automatically
General	IP address	
Network	Subnet mask	
Time/Date	Gateway	
2 HMI Name	DNS	
Clear History	0.10	
t s a sus		

# 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-FHDX IP > Click Download to download this project file to cMT-FHDX.

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

# **Communication Connection**

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



DIN	1#	COM1	COM2 [RS-485]		COM3
P 11	PIN#	[RS-232]	2W	4W	[RS-485] 2W
1					Data+
2	2	RxD			
3	5	TxD			
4	ł				Data-
5	;		(	GND	
6	;		Data+	Rx+	
7	•		Data-	Rx-	
8	;			Tx+	
9	)			Tx-	

### **DIP SW Settings**

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↓1	2	
ON		

SW1	SW2	Mode
OFF	OFF	Normal Mode
ON	OFF	Hide Start Button
OFF	ON	Update OS
ON	ON	Restore Factory Default

# **Battery Replacement**

Battery Specification: UL Certification Battery, Type CR1220, Rated 3V, Max. Abnormal Charging Current 10mA, Working Temperature: max. 70°C

Battery replacement shall be performed by gualified 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:

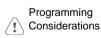
http://www.weintek.com/download/MT8000/eng/FAQ/FAQ\_103\_Replace\_Battery\_en.pdf

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CAUTION

NOTE: Make sure that all local and national electrical standards are met when installing the unit. Contact your local authorities to determine which codes apply.

	Installing the unit. Contact your load dationales 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: $24\pm20\%$ , 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 Require- ments	If the Power LED does not light up immediately after power up, remove power. A resettab fuse will protect against overcurrent faults in DC circuit and the resetting will take place after 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 guarantee 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 wit 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.		
(1) Wire Routing	<ul> <li>a. Power wire length should be minimized (Max: 500m shielded, 300m unshielded).</li> <li>b. Please use twisted pair cables for power wire and signal wire and conform to the impedance matching.</li> <li>c. If wiring is to be exposed to lightning or surges, use appropriate surge suppression devices.</li> <li>d. Keep AC, high energy, and rapidly switching DC power wiring separated from signal wires.</li> <li>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.</li> </ul>		
DANGER Hardware Considerations	The system designer should be aware that devices in Controller systems could fail are thereby create an unsafe condition. Furthermore, electrical interference in an operate interface can lead to equipment start-up, which could result in property damage and/ physical injury to the operator. If you use any programmable control systems that require an operator, be aware that the potential safety hazard exists and take appropriate precautions. Although the specific design steps depend on your particular application, the following precautions generally apply installation of solid-state programmable control devices, and conform to the guidelines f installation of Controllers recommended in NEMA ICS 3-304 Control Standards.		
Programming	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		



checks built into the program, with an out-of-limit safe shut down procedure to ensure safety of personnel.

GMEFHDX00 cMT-FHDX Installation 200420

### Limited Warranty

This product is limited warranted against defects in design and manufacture. The proven defective product will either be repăired 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.