

Micon Product Installation Manual

Part 1 General Notes

- All communication ports of Levi series HMI support RS232 and RS485, while downloading project, pls use Rs232 communication cable that only with three-core(receiving,transmitting grounding),the default downloading port is COM2.
- The HMI must be grounded according to this instruction manual
- Signal group of communication port must be connected according to this instruction manual

Foreword

This installation manual for following WECON HMI.

- M430T series, 4.3 inch HMI, M700L series, 7.0 inch HMI
- M777A series, 7.0 inch HMI, M700E series, 7.0 inch HMI
- M908T series, 8.0 inch HMI, M102A series, 10.2 inch HMI, M910T series, 10.4 inch HMI.

Part 2 Safety Precautions

Pay attention to following safely precautions at any moment when installing, wiring, operating, maintaining, examining.

Installation notice

- HMI must be installed according to this installation manual, otherwise may cause damage to device
- HMI prohibited in water vapor, flammable and corrosive gases contain condition.

Wiring notice

- Please connect ground terminal to Class-3(below 100 Ω) to avoid fire and electrical shock that may caused by poor grounding.
- The power supply for Levi series HMI is 24 volts, other range voltage will make HMI perform unstably, even cause damage to HMI

Operation notice

- Need to use LeviStudio programming software to design the project of Levi series HMI, the HMI without secondary design may lead to abnormal performance.
- Do not change wiring when HMI power on, or it may lead to electronic shock and injuries.
- Do not use too much force or sharp objects when touching the display.

Maintenance and inspection

- Do not touch inside HMI, otherwise may lead to damage to HMI and electric shock
- Before carrying out any cleaning or maintenance operation, disconnect the equipment from the electrical supply.
- Do not touch cable terminal in ten minutes after power off, otherwise leftover voltage may lead to short circuit or damage to HMI.
- The opening on the enclosure are for air convection, do not cover these opening, or it may cause a breakdown.

Requirements for communication cable

- Please use standard communication cable
- Please use communication cable that length conform with the regulations
- Ensure doing correct ground loops, otherwise errors in communication may occur.

Part 3 Work Environment

Place HMI in packing box before installation, the idle HMI, pls store it in the place where the following conditions are fulfilled:

- No dust, dry
- Temperature ranges from -20°C to +70°C (-4°F to 140°F)
- Humidity ranges from 10% to 85%, non-condensed
- No corrosive gas and no liquid
- Beeter have a shelf or plane surface to store

Part 4 Basic Inspection

Please do following inspection before using HMI

General inspection

- Check if the screw that use for connect HMI serial port and equipment is loose or not
- Check if fluids, metal filings or wiring debris enter any openings in the HMI
- If HMI be placed in noxious gas and much dust contain condition, please do something to prevent them ingress

Inspection before operation(not powered)

- Ensure to use shielded communication cable
- Ensure the wiring is correct
- Check whether there are foreign objects inside of HMI, such as conductive objects, like metal filings and screws, flammable objects
- While electronic equipment around HMI is interfered by electromagnetic, please reduce electro-magnetic interference with instrument
- Ensure that voltage of power supply is correct

Inspection before running(powered)

- Ensure that power indicator is on
- Ensure that communication between HMI and equipment is in normal status
- Anything abnormal, please contact supplier

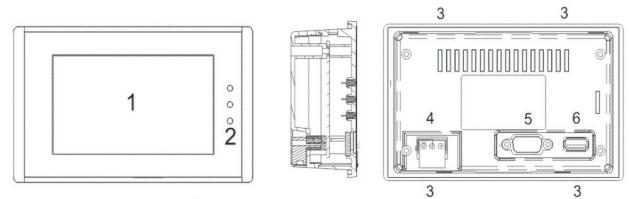
Part 5 Packing List

sequence	Component	quantity
1	M series HMI	1
2	HMI fixed buckle	4
3	Power plug	1
4	HMI installation manual	1

Part 6 Product Standard

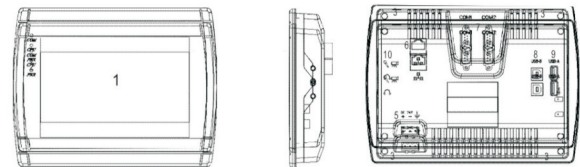
Module	M 430T	M777A/700L/700E/102A	M 908T/910T
Content	General standard		
Power voltage	DC24V		
Power voltage range	DC12V-CD28V		
Instantaneous stop time	Below 5ms		
power	Below 5W	Below 8W	Below 10W
Temperature	-20°C ~ +60°C		
Store temperature	-20°C ~ +60°C	-20°C ~ +70°C	
Humidity	10% ~ 85%RH, non-condensing		
Store humidity	10% ~ 85%RH, non-condensing		
Anti-jamming	Interference voltage : AC1000VP-P pulse period: 11μs, duration: 1 ns		
Pressure	AC500V 20mA below 1 minute between power terminal and FG terminal		
Insulation impedance	DC500V above 20MΩ between power terminal and FG terminal		
Vibration resistance	Accord with IEC61131-2 standard : vibration occasions : 10Hz ~ 57 Hz 0.075mm, 57 Hz~ 150 Hz 9.8m/s2 vibration occasions : 10Hz ~ 57 Hz 0.035mm, 57 Hz~ 150 Hz 4.9m/s2 each of X , Y , Z 10 times in 80 minutes		
Static resistance	accord with IEC61000-4-2 standard : contact discharge : 4KV, air discharge : 8KV		
Corrosion	Avoid corrosive gas		
Protection level	Equal in IP65(surface)		
Cooling	Natural air cooling		

Part 7 Components and Functions of M Series HMI



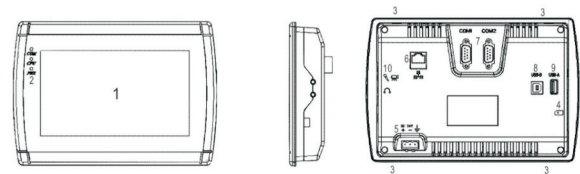
M430T Components description

1	LCD and touch screen	2	Indicator light	3	Fixed buckle	4	Power slot	5	COM1
6	USB device								



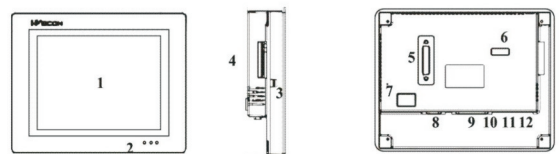
M777A Components description

1	LCD and touch screen	2	Indicator light	3	Fixed buckle	4	SD card slot	5	Power slot
6	Network port (optional)	7	COM	8	USB-B	9	USB-A	10	AV port (Optional)



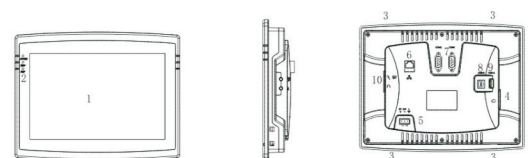
M700L/700E Components description

1	LCD and touch screen	2	Indicator light	3	Fixed buckle	5	Power slot	7	COM1
8	USB-B	9	USB-A						



M908T/910T Components description

1	LCD and touch screen	2	Indicator light	3	Fixed buckle	4	SD card slot	5	Parallel
6	DIP switch	7	Power supply socket	8	COM2	9	COM1 / COM3 (optional)	10	USB host
11	USB device	12	Network port (optional)						



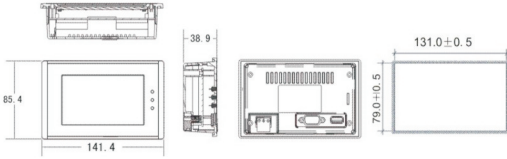
M102A Components description

1	LCD and touch screen	2	Indicator light	3	Fixed buckle	4	SD card slot	5	Power slot
6	Network port (optional)	7	COM	8	USB-B	9	USB-A		AV port (Optional)

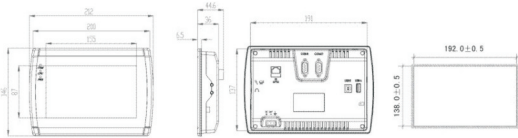
Power supply interface is defined as the following according to view above from left to right:

DC 24V anode DC24V cathode ground

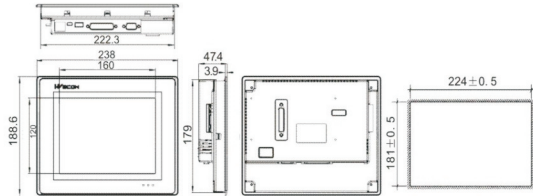
Part 8 Size of M Series HMI



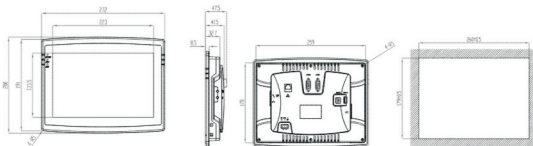
M 430T installation size



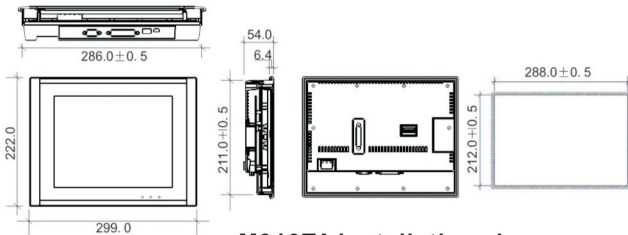
M777A/700L/700E installation size



M 908T installation size



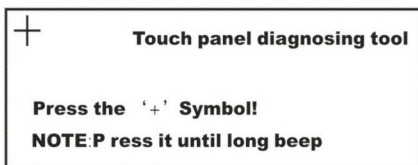
M102A installation size



M910TA installation size

Part 9 Touch Screen Calibration

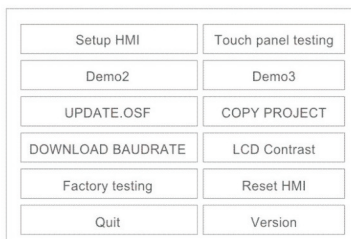
After starting HMI, keep on pressing top left corner of screen about 3 to 5 seconds , an interface will appear as follows :



Click top left corner , bottom left corner , bottom right corner , top right corner and the center of '+' in turn and restart .

Part 10 Parameter Setup

Keep on pressing top right corner of screen about 3 to 5 seconds , an interface will appear as follows :



Select "setup HMI", enter parameter set up interface, communication parameter, time parameter and other parameter are available, click "save" after modification, the setup works after re-starting.

Part 11 Installation of M Series HMI

Notes:

- Direction of HMI must be installed in accordance with this installation manual, otherwise may lead to breakdown
- Leave enough space for HMI for air convection when installing
- 4x indoor use only

Installation steps:

- Ensure waterproof gasket is cased, then secure HMI in position
- Use all provided brackets and screws to fix HMI
- Tighten the screws with proper twisting force and remember do not use too much strength, otherwise it will lead a damage to plastic enclosure, rated twisting strength: 6.17lb-inch (0.7NM)

Part 12 Interface Definition of M Series HMI

M430T series interfaces

COM definition:

Pin	Definition	Pin	Definition
1	RS422TX+/RS485A+	2	RS232 RXD
3	RS232 TXD	5	GND
6	RS422TX-/RS485B-	8	RS422 RX-
9	RS422 RX+		

M777A/102A series interfaces

COM1 definition:

Pin	Definition	Pin	Definition
1	RS422 TX+ /RS485 A+	2	RS232 RXD
3	RS232 TXD	4	CANL (optional)
5	GND	6	RS422 TX- /RS485 B-
7	CANH (optional)	8	RS422 RX-
9	RS422 RX+		

COM2 definition:

Pin	Definition	Pin	Definition
1	RS485 A+	2	RS232 RXD
3	RS232 TXD	5	GND
6	RS485 B-		

M700L/700E series interfaces

COM1 definition:

Pin	Definition	Pin	Definition
1	RS422 TX+ /RS485 A+	2	RS232 RXD
3	RS232 TXD	4	CANL (optional)
5	GND	6	RS422 TX- /RS485 B-
7	CANH (optional)	8	RS422 RX-
9	RS422 RX+		

M908T/910T series interface

COM1/COM3 definition:

Pin	Definition	Pin	Definition
1	GND	2	COM1 RS232 TXD
3	COM1 RS232 RXD	7	GND
8	5V power supply output (Optional)	9	COM3 RS485 A+ (Optional)
10	COM3 RS485 B- (Optional)	14	COM1 RS422 TXDA
15	COM1 RS422 TXDB	16	COM1 RS422 RXDA
17	COM1 RS422 RXDB	19	CAN bus (L) (optional)
21	CAN bus(H)(optional)		

COM2 definition:

Pin	Definition	Pin	Definition
1	RS485 A+	2	RS232 RXD
3	RS232 TXD	5	GND
6	RS485 B-		

Notice

Please forgive that the contents of the manual may be changed without notice.

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