

RX371 Models: HE-RX371 / HERX371C101

Specifications

	Table 1 - F	RX371 Specifications		
Display Type (LCD)		5.7" QVGA TFT		
Display Size		5.7"		
Display Brightness		700 nits		
Display Screen Dimensions		320 x 240		
Display Memory		2.75MB		
		Minimum 40000 hours (50% brightness, 25		
Display Life		deg C)		
User Keys		5 user-defined Function keys and a System key		
Screens supported		1023		
Colors		32768		
Primary power		10 – 30 VDC		
Steady state current		0.8A @ 24 VDC, 2A @ 10 VDC		
Inrush current		30 A for 1 ms @ 24 VDC – DC Switched 2.5 A for 4 ms @ 24 VDC - AC Switched		
	Drod	uct Descriptions		
Height	l	5.964" (151.49mm)		
Width		7.682" (195.12mm)		
Depth		2.425" (61.60mm)		
Serial Ports	D	S232 & RS485. Software Selectable		
	K-			
Terminal Type		Screw Type, 5mm removable 54 oz (1.53kg)		
Weight	Micro SD card slot			
Portable Memory				
Temperature &	-30°C to +60°C & 5 to 95% Non-condensing			
Humidity		(Storage & Operating)		
Clock Accuracy		+/- 35 ppm maximum at 25° C		
		(+/- 1.53 Minutes per Month)		
CE UL	USA: http://www.heapg.com/Pages/TechSupport/ProductCert.html EUROPE: http://www.horner-apg.com/en/support/certification.aspx			
		Connectivity		
Smart Stack Module		Provides a wide variety of I/O options for the		
Cinari Otack Wodale		QX. Requires little space and are easy to install.		
SmartStix Modules		It is a family of remote I/O products for the QX.		
Serial Ports		2 Serial Ports – RS232 & RS485		
Ethernet		Ethernet (10/100 Mbps)		
USB		USB networking port for communication with		
		PC's, programming of controller, flash drive connectivity		
Removable Media		Removable Media for up to 2 GB (gigabytes) of storage of programs, data logging or screen captures		



RX371

2. Installation

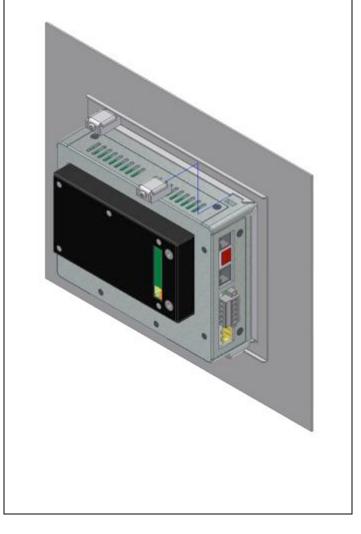
- Prior to mounting, observe requirements for the panel layout design and spacing/clearances in the OCS RX371 Manual (MAN0924).
- Cut the host panel.
- Insert the OCS through the panel cutout (from the front). The gasket material needs to be between the host panel and the OCS

Caution: Do not force the OCS into the panel cutout. An incorrectly sized panel cutout can damage the touch screen.

Install and tighten the mounting clips (provided with the OCS) until the gasket material forms a tight seal.

Caution: Do not over-tighten. Over-tightening damages the case

- Connect cables as needed such as communications, programming, power and CsCAN cables to the ports using the provided connectors.
- Begin configuration procedures.



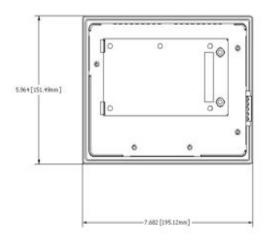
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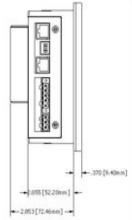
3. Panel Cut out and dimensions

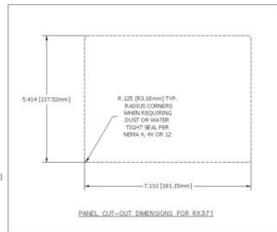
Refer to the RX371 User Manual (MAN0924) for panel box information and a handy checklist of requirements.

Note: The tolerance to meet NEMA standards is ± 0.005 " (0.1 mm).

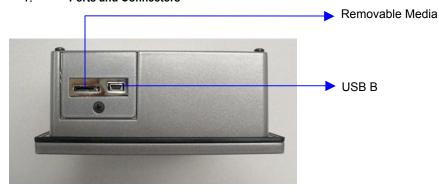
Note: Max. Panel thickness: 5 mm







4. **Ports and Connectors**



USBA: For flash drive connectivity

USBB: For network communication and programming of OCS

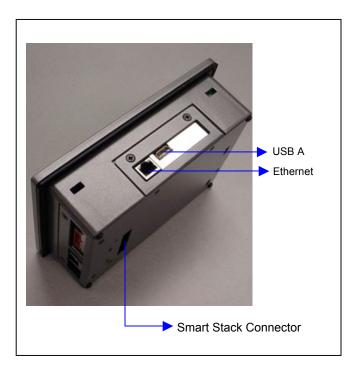
Removable Memory: Uses Removable Memory for data logging, screen captures, program loading and recipes. Horner Part No.: HE-MC1

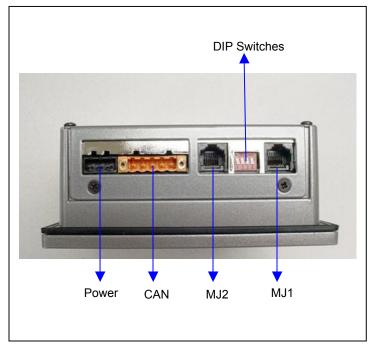
Serial Communications: MJ1/MJ2: (RS-232 / RS-485) Use for Cscape programming and Application-Defined Communications.

Ethernet: Used for Cscape programming and Application-Defined Communications.



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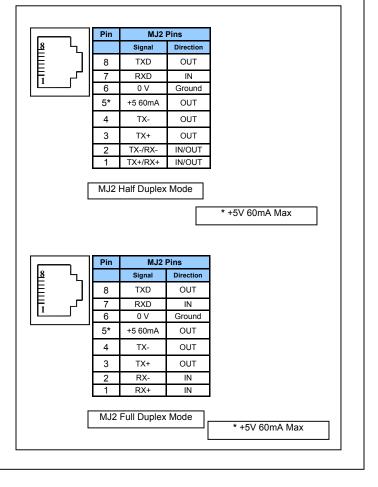


4.1 Serial Communications:

MJ1: (RS-232 / RS-485) Use for Cscape programming and Application-Defined Communications.

MJ2: (RS-232 / RS-485) Use for Application-Defined Communications.

	Pin	MJ1 I	Pins	MJ2	Pins
<u> 8</u>		Signal	Direction	Signal	Direction
	8	TXD	OUT	TXD	OUT
∣ ╘ ∐∣	7	RXD	IN	RXD	IN
│ 	6	0 V	Ground	0 V	Ground
	5*	+5 60mA	OUT	+5 60mA	OUT
	4	RTS	OUT	TX-	OUT
	3	CTS	IN	TX+	OUT
	2	RX-/TX-	IN / OUT	RX-	IN
	1	RX+/TX+	IN / OUT	RX+	IN

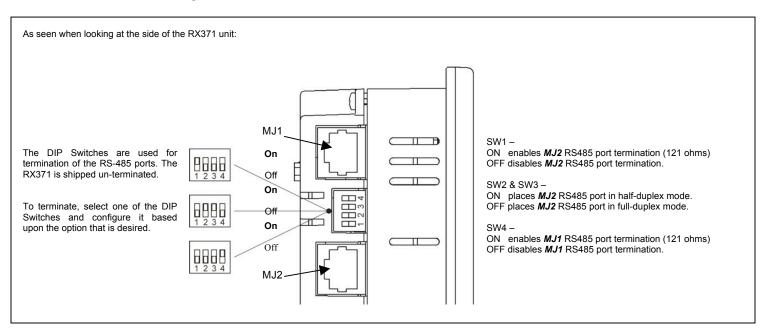


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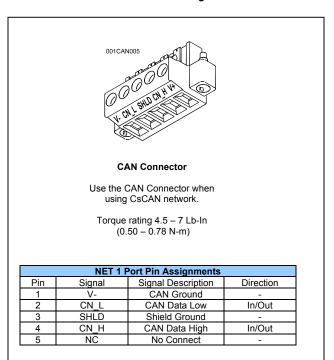
Table 2 -	Ports and Function	ons
Functions	Port 1 (MJ1)	Port 2 (MJ2)
RS-232	✓	✓
Hardware Handshaking	4	х
Programming	✓	х
Ladder function controlled	✓	✓
Serial Downloadable Protocols	✓	✓
RS 485 Half duplex	✓	✓
RS485 Full duplex	X	✓

Table 3 - Ethernet Port		
Speeds	10 BaseT Ethernet (10-Mbps)	
opecus	100 BaseTx Fast Ethernet (100-Mbps)	
Modes	Half or Full Duplex	
Auto - Negotiation	Both 10/100-Mbps and Half/Full Duplex	
Connector Type	Shielded RJ-45	
Cable Type (Recommended)	CAT5 (or better) UTP	
Port	Auto MDI/MDI-X	

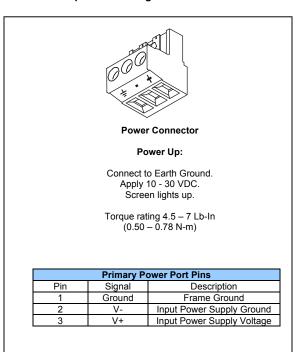
4.3 External DIP Switch settings



4.4 CAN Network Port and wiring



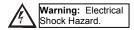
4.5 Power port and wiring



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5. Safety

When found on the product, the following symbols specify:



Warning: Consult iser documentation.

This equipment is suitable for use in Class I, Division 2, Groups A, B, C and D or Non-hazardous locations only

WARNING - EXPLOSION HAZARD - Do not disconnect equipment unless power has been switched off or the area is known to be non-hazardous AVERTISSEMENT - RISQUE D'EXPLOSION - AVANT DE DECONNECTOR L'EQUIPMENT, COUPER LE COURANT OU S'ASSURER QUE L'EMPLACEMENT EST DESIGNE NON DANGEREUX.

WARNING: To avoid the risk of electric shock or burns, always connect the safety (or earth) ground before making any other connections.

WARNING: To reduce the risk of fire, electrical shock, or physical injury it is strongly recommended to fuse the voltage measurement inputs. Be sure to locate fuses as close to the source as possible.

WARNING: Replace fuse with the same type and rating to provide protection against risk of fire and shock hazards.

WARNING: In the event of repeated failure, do not replace the fuse again as a repeated failure indicates a defective condition that will not clear by replacing the fuse.

WARNING - EXPLOSION HAZARD - Substitution of components may impair suitability for Class I, Division 2

AVERTISSEMENT - RISQUE D'EXPLOSION - LA SUBSTITUTION DE COMPOSANTS PEUT RENDRE CE MATERIAL INACCEPTABLE POUR LES EMPLACEMENTS DE CLASSE 1, DIVISION 2

WARNING - The USB parts are for operational maintenance only. Do not leave permanently connected unless area is known to be non-hazardous.

WARNING - EXPLOSION HAZARD - BATTERIES MUST ONLY BE CHANGED IN AN AREA KNOWN TO BE NON-HAZARDOUS AVERTISSEMENT - RISQUE D'EXPLOSION - AFIN D'EVITER TOUT RISQUE D'EXPLOSION, S'ASSURER QUE L'EMPLACEMENT EST DESIGNE NON DANGEREUX AVANT DE CHANGER LA BATTERIE

WARNING - Battery May Explode If Mistreated. Do Not Recharge, Disassemble or Dispose Of In Fire

WARNING: Only qualified electrical personnel familiar with the construction and operation of this equipment and the hazards involved should install, adjust, operate, or service this equipment. Read and understand this manual and other applicable manuals in their entirety before proceeding. Failure to observe this precaution could result in severe bodily injury or loss of life.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference.
- This device must accept any interference received, including interference that may cause undesired operation.

Radiated Emission Compliance: For compliance requirement, a ferrite (Horner P/N FBD006 supplied with the unit) needs to be placed on the AC/DC line with one loop.

- All applicable codes and standards need to be followed in the installation of this product.
- Adhere to the following safety precautions whenever any type of connection is made to the module:
- Connect the safety (earth) ground on the power connector first before making any other connections.
- When connecting to electric circuits or pulse-initiating equipment, open their related breakers.
- Do not make connections to live power lines.
- Make connections to the module first; then connect to the circuit to be monitored
- Route power wires in a safe manner in accordance with good practice and local codes.
- Wear proper personal protective equipment including safety glasses and insulated gloves when making connections to power circuits.

 Ensure hands, shoes, and floors are dry before making any connection to a
- power line
- Make sure the unit is turned OFF before making connection to terminals.
- Make sure all circuits are de-energized before making connections.
- Before each use, inspect all cables for breaks or cracks in the insulation. Replace immediately if defective.
- Use Copper Conductors in Field Wiring Only, 60/75° C

6. **Technical Support**

For assistance and Manual updates, contact Technical Support at the following

North America: Tel: 317-916-4274

Fax: 317-639-4279 Web: www.heapg.com Email: techsppt@heapq.com

Europe:

Tel: +353-21-4321-266 Fax: +353-21-4321-826 Web: www.horner-apg.com Email: techsupport@horner-apg.com

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