



GATEKEEPER[®]
SYSTEMS

Cartronics CRFII
User Manual



INSTRUCTION TO THE USER

This equipment has been tested and found to comply with the limits for a class B digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a typical installation. This equipment generates, uses and can radiate radio frequency energy and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna on the device experiencing the interference
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which this device is connected
- Consult the dealer or experienced technician for the device experiencing the interference

In order to maintain compliance with FCC regulations, no changes can be made to this equipment without the approval of Gatekeeper Systems, Inc. The user is cautioned that any changes or modifications made to the equipment without the approval of Gatekeeper Systems, Inc. could void the user's authority to operate this equipment. This device must be installed by a professional installer.

Warning: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user authority to operate the equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

IC / ISED statements:

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s).

Operation is subject to the following two conditions:

- 1. This device may not cause interference.*
- 2. This device must accept any interference, including interference that may cause undesired operation of the device.*

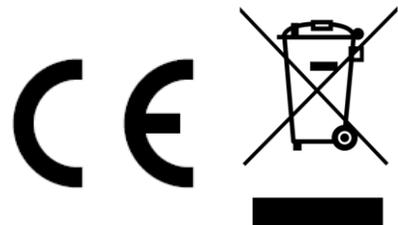
L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

- 1. L'appareil ne doit pas produire de brouillage;*
- 2. L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.*

The suggested ambient temperature is around 0°C to 60°C

The operating frequency is 2405-2480MHz

Power Requirements :12V DC, 250mA.



1. CRFII

CRFII is part of the Cartrronics' Push-Out Prevention System (POPS™) on a shopping cart. It involves Web Integrator, TX2, Permit Issuer, Sentry and the wheel Casters.

It collects diagnostics from the Cartrronics network to the Cartrronics data center. It allows Cartrronics service personnel to remotely monitor, configure and manage a Cartrronics installation. We use this information to generate loss prevention, asset management, operations improvement, and resource allocation reports for customers.

2. CRFII DETAILS:

1. CRFII Functional Requirement

1.1 CRFII – Web Integrator

Each Cartrronics network includes a Web Integrator. It automatically manages an installation's configuration and serves as the communication backbone between all in-store devices, such as TX2, Permit Issuer and Sentry.

The Web Integrator is a secure plug-and-play communications device that supports Ethernet connectivity.

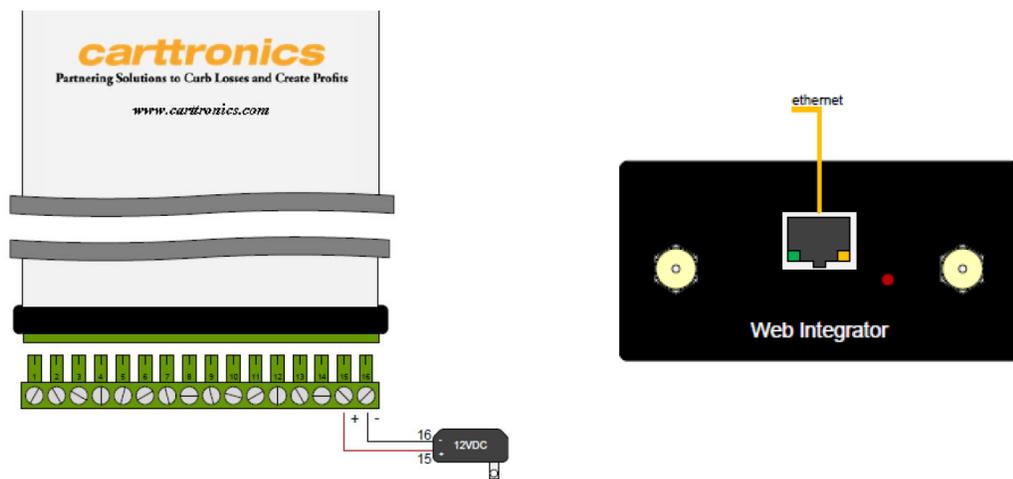


Fig.1 Web Integrator Connection Diagram

1.2 CRFII – TX2

TX2 is used to drive a large 8Khz loop with an 8Khz loop driver

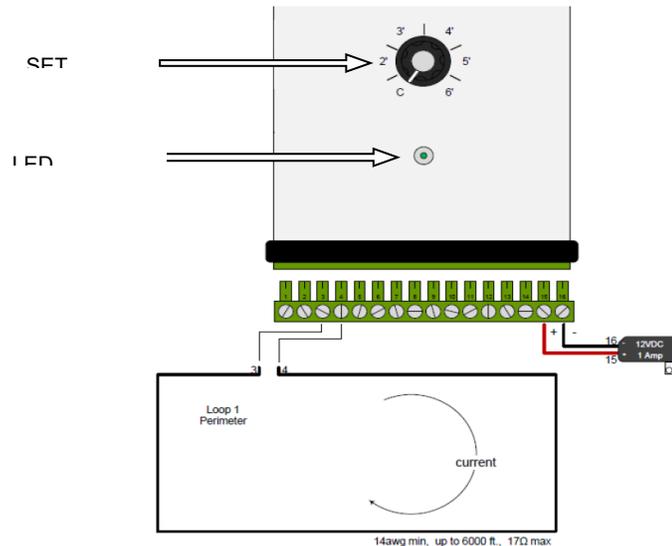


Fig.2 TX2 Connection Diagram

1.3 CRFII – Permit Issuer /Sentry

1.3.1 Permit Issuer

The Permit Issuer (PI) is a network device used in Cartrronics Push-Out Prevention System (POPS™) that authorizes casters and beacons to exit the store within a programmable time limit.

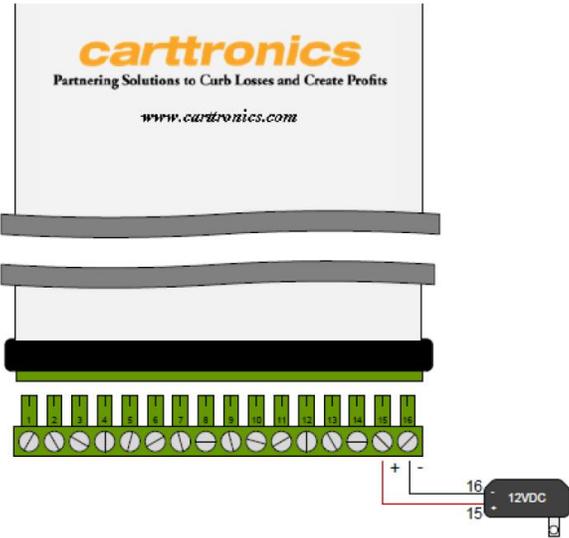


Fig.3 Permit Issuer Diagram

1.3.2 Sentry

Sentry is used to drive two small 8Khz loops

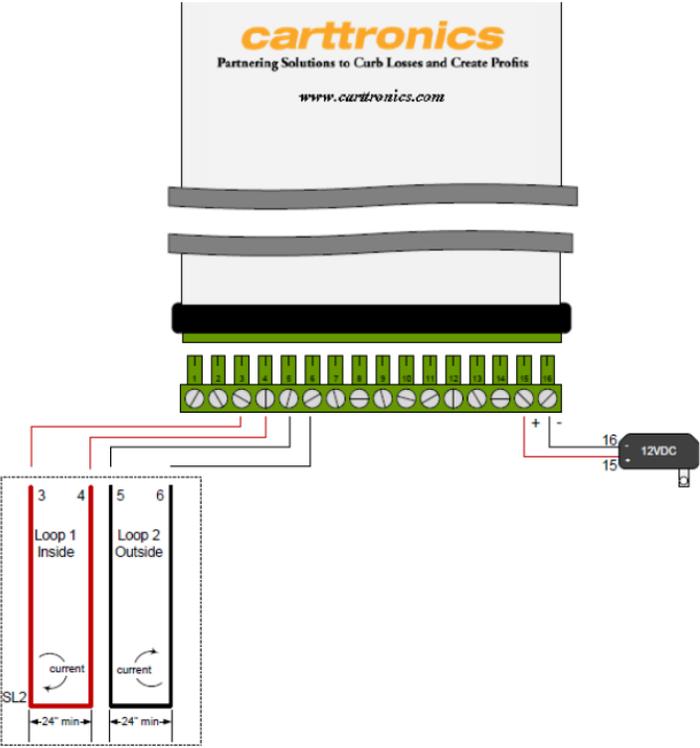


Fig.4 Sentry Connection Diagram

3. INSATALLATION

1. Mount the CRFII on the table or on the wall by screws.



Contacting Gatekeeper Systems

For more information about the Module and troubleshooting, to order parts or report an issue, contact the Gatekeeper Systems Inc. regional Customer Support office nearest to your location.

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