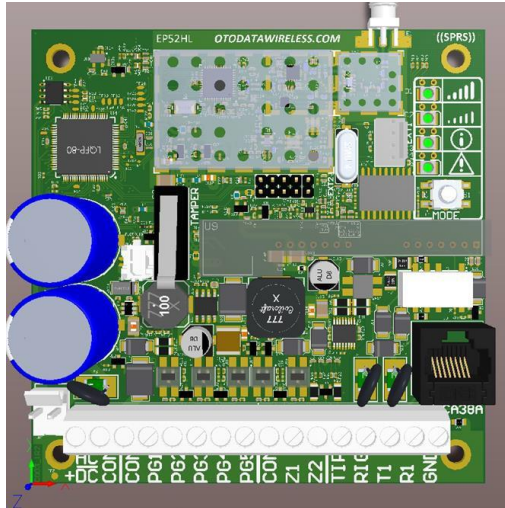


C003 v.0r1

Alarm panel interface

radio communicator



USER MANUAL

- SPRS Ready
- Self-contained
- Highly robust communication protocol

The C003 Alarm panel interface radio communicator is a transceiver that is used primarily for the communication of identification, control and management information from residential and commercial alarm systems using RF (radio frequencies).

System description.

The C003 system has been developed with the goal of providing the following services.

- Data transfer, logging and Telemetry
- Full and Partial alarm CID reporting

The use of the C003 enables wireless data collection and reporting of CID alarm panel messages. This monitoring and control is done according to schedules and specific conditions that have been previously established.

The C003 was developed in order to minimize the use of space inside standard alarm panel enclosures. One of the main criteria for the development was also reduced operating cost. This is achieved by virtue of the fact that energy consumption is kept to a minimum by maximizing overall system efficiency.

This device complies with Industry Canada's licence-exempt RSSs. Operation is subject to the following two conditions:

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

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.

Please note: The minimum separation distance between the device's antenna and all persons during normal operation is 25 centimeters.

Warning: Any changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment. Do not attempt to tamper or make any changes to this device.

Le présent appareil est conforme aux CNR d'Industrie 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, et
- (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Avertissement RF conformité de l'exposition. L'antenne (s) utilisée pour cet émetteur doit être installée pour fournir une distance de séparation d'au moins 25 cm de toutes personnes et ne doit pas être situé à proximité ou fonctionner en conjonction avec une autre antenne ou émetteur.

Tout changement ou modification non expressément approuvé par la partie responsable de la conformité risque d'invalider l'autorisation accordée à l'utilisateur d'utiliser cet appareil. Les utilisateurs et les installateurs doivent recevoir des instructions d'installation de l'antenne et des conditions de fonctionnement du transmetteur satisfaisant le respect de l'exposition aux RF.

INSTALLATION INSTRUCTIONS

The unit may be installed in the existing alarm panel enclosure. It has been designed for space saving and efficiency. Once the unit is installed in the enclosure simply install the mag mount antenna on top of existing enclosure and run the coaxial cable into the enclosure. Now you may connect the coaxial cable to the module's RF connector.

CONNECTIONS (Primary use)

Connecting the unit is fast and simple. Simply follow these steps in order to power up the unit and ensure proper data connectivity.

- A) Plug the battery connector into the unit (if you are not using the alarm panel's auxiliary power terminals);
- B) Plug the AC adapter into the units AC terminals (if you are not using the alarm panel's auxiliary power terminals);
- C) If you are using the alarm panel's auxiliary power source then proceed to connect the unit's AC/DC terminals to the alarm panel's auxiliary terminals.
- D) Connect to the existing alarm panel data port using the supplied RJ31 jumper;

Please note that further connections may be required depending on the type of installation and features that are sought.

RF CONNECTIVITY TEST

Once the unit is secured and installed you may now preform an RF network connectivity test. This is a critical step that must be completed in order to ensure that all messages will be relayed successfully.

- A) Hold the "MODE" button down for 3 seconds until the LED indicator (yellow) lights up twice, then release;
- B) The LED indicator constantly blinks throughout the test run;
- C) Keep the unit in the selected location during the whole test run: approximately 90 seconds;
- D) The test is finished once the LED indicator stops blinking;
- E) Single or double solid green LEDs indicate a successful RF connectivity test. If the test result in a blinking single RED LED then you must repeat the test one more time. If after a second attempt the result is still negative then please call our customer service and technical support department.

| Characteristics | Advantages | Benefits |
|--|---|---|
| Secure and robust communication protocol | <ul style="list-style-type: none"> The RF environment is more and more saturated, hence the need for robust communication means. | <ul style="list-style-type: none"> Data is transmitted using an encoding system that maintains a very high degree of data integrity. It is therefore possible to recover data even in extreme circumstances. |

Product name: C003 Alarm Interface) Technical specifications

General information

Outside dimensions

Height : 25.40 mm (1.00 inches)
Width : 100.00 mm (3.93 inches)
Length : 100.00 mm (3.93 inches)
Material : FR4 (no enclosure)
Color : Black

Operational & Environmental

Operating temp. : -40 +85°C
Environmental protection : IP6x (non-immersed)

Specifications (TX / RX)

Receiver

Span (freq.) : 902.000MHz ~ 928.000MHz
Modulation : SSFH / 2FSK
Sensitivity: -114 dBm

Transmitter

Span (freq.) : 902.000MHz ~ 928.000MHz
Modulation : FH / 2FSK
Encoding : Variable encoding
Output power : MAX (1 watt- conducted)

PRELIMINARY SPEC

Electrical

Supply voltage (lead in) : 12Vdc
Internal voltage: 3.3Vdc
Electrical consumption: Variable. Peak 0.05%

Certifications

Industry Canada RSS-247 Issue 1
FCC(United-States) Part 15 (C)