

User manual

Model Name: GO Real-Time 2G/3G

By

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Revision History

Revisio	Date	Descriptio
X1.00	18/10/04	Initial Release

Scope

This document is a user manual for the GO Real-Time 2G/3G monitoring temperature device.

Description

The GO Real-Time 2G/3G is a self integrated commercial grade monitoring temperature device that uses in the cold storages. GO Real-Time 2G/3G is optimized for reliability, cost and size.

All antenna including GSM/WCDMA antenna are internal to the device. Data reporting can be initiated by a command center or by the device itself via GSM/GPRS/WCDMA, SMS or PDP pathways.

The GO Real-Time 2G/3G is unique in that it is intrinsically expandable. A fastened expansion door secures SIM card access.

The GO Real-Time 2G/3G has a embedded lithium battery, the battery has 5400mAh capacity .

The GO Real-Time 2G/3G is based on chip level design. The application software executes on the base level Central Processing Unit (CPU) under direct Operating System (OS) control. This approach provides a much more reliable, lower power and faster response than module/processor architectures. Unlike in common module/processor based designs; the GO Real-Time 2G/3G design allows direct operating system access by the application, thus mitigating the need for a redundant external processor.

For added monitoring temperature application ,a temperature sensor IC oversees the GO Real-Time 2G/3G system operation.

The GO Real-Time 2G/3G Device can be provisioned for UDP and SMS data services for both application command and data transactions within the 850 & 1900 or 900 & 1800 MHz GSM bands and Band1&Band2&Band5&Band6&Band8 WCDMA band. Network provisioning is done with standard SIM cards.

A USB Port that is compliant with Version 2.0 of the USB standard for high speed operation is provided for upgrade/download the program.

The power input, ground that are provided by the internal lithium battery that supports connection of a rechargeable battery.

Over The Air (OTA) application firmware updates are supported through at TFTP connection to a server. The entire image can be updated using one simple command. This includes transient electrical noise and Electro Static Discharge (ESD).

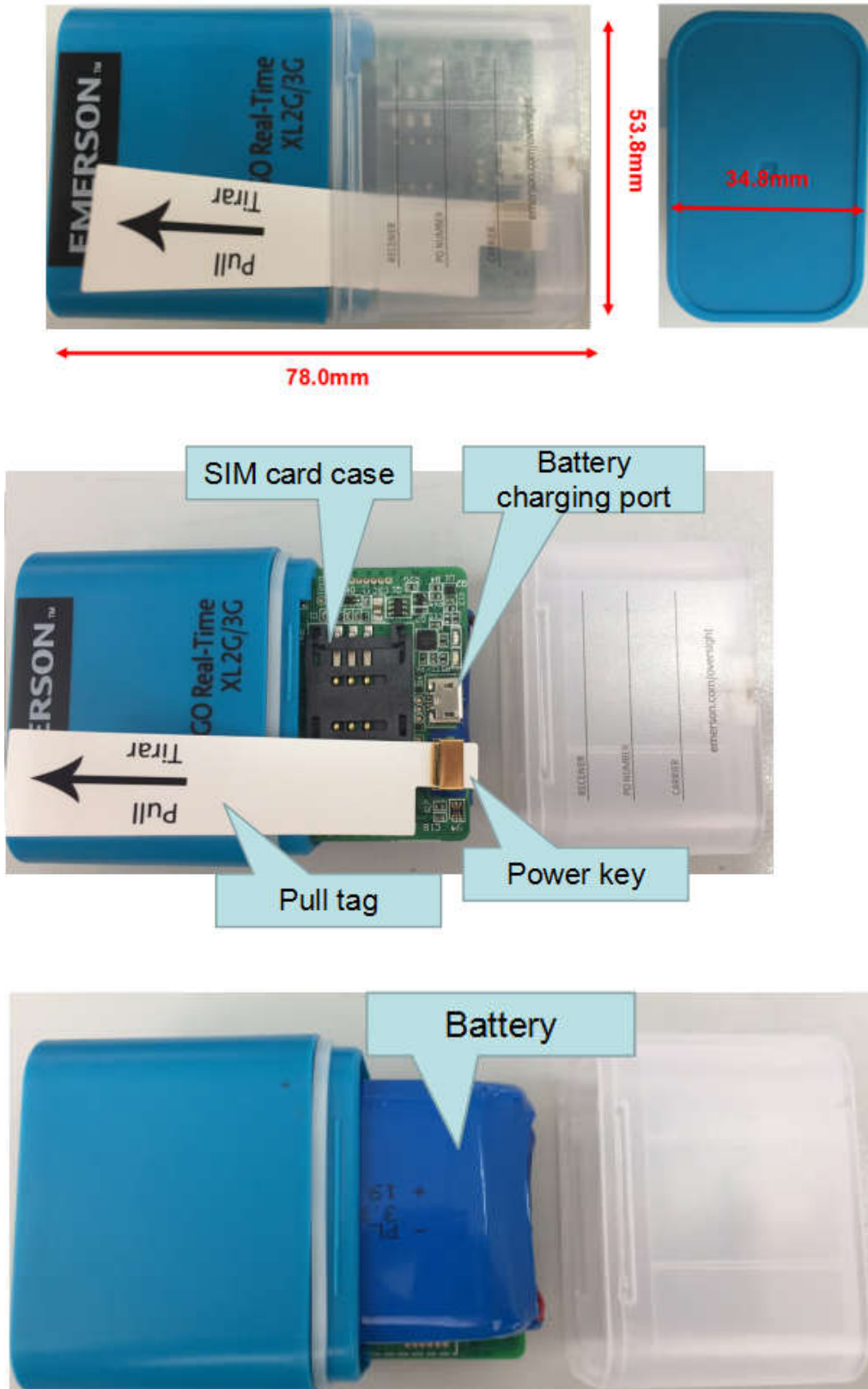
The GO Real-Time 2G/3G is a small Blue - white box with unremarkable features. Two LED status indicators are provided to verify correct installation and initial operation. A unique power management feature allows these LEDs to be extinguished once installation is verified to be correct. This feature reduces power.

As with all monitoring temperature device , the GO Real-Time 2G/3G should be used in a Cold storages that it is a enclosed space . Double sided foam tape can be used to secure the surface not facing the sky if needed.

Physical Attributes

Figure 1 shows various views of the GO Real-Time 2G/3G Device and its critical physical features.

Figure 1
GO Real-Time 2G/3G Physical Attributes



CE Regulations:

Caution

Risk of explosion if battery replaced with an incorrect type.

Dispose of used batteries according to the instructions.

Please make sure the temperature for device will be from -10°C to 45°C .

The manufacturer specified the maximum ambient temperature for use in charging mode of 40 °C and for use in non-charge mode of 45 °C.

Adapter is not shipped with the product, but if used adaptor, need to select output rated of DC5V, 0.8A min and ambient 40 °C minimum.

The minimum distance between the user and/or any bystander and the radiating structure of the transmitter is 20cm.

This radio equipment operates with the following frequency bands and maximum radio-frequency power:

GSM900: 32dBm

GSM1800: 29dBm

Band1:21dBm

Band8:21dBm

Complies with the essential requirements of Article 3 of the RED /EC Directive, if used for its intended use and that the following standards have been applied:

1. Health (Article 3.1(a) of the RED Directive)

- EN 62311: 2008

2. Safety (Article 3.1(a) of the RED Directive)

Applied Standard(s):

- EN 60950-1:2006+A11:2009+A1:2010+A12:2011+A2:2013

3. Electromagnetic compatibility (Article 3.1 (b) of the RED Directive)

Applied Standard(s):

- EN 301 489-1 V1.9.2/-7 V1.3.1

4. Radio frequency spectrum usage (Article 3.2 of the RED Directive)

Applied Standard(s):

- EN 301 511 V9.0.2

All the reports of the applied standards have the Positive Opinion of Notified Body:

PHONEIX TESTLAB, Königswinkel 10 D-32825 Blomberg, Germany

Identification mark: (Notified Body) CE  

*Uitbreidingsstraat 84, Berchem, Antwerpen, 2600,
Belgium |*

The technical documentation relevant to the above equipment will be held at: Locus Solutions

FCC Regulations:

● 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.

● This device 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 residential 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.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Cet appareil est conforme aux dispositions de la partie 15 des règles de la FCC et des normes CNR d'Industrie Canada sur les appareils radio exempts de licence. Son utilisation est assujettie aux deux conditions suivantes : (1) Cet appareil ne doit pas causer d'interférence nuisible; et (2) cet appareil doit accepter toute interférence reçue, y compris l'interférence qui pourrait causer un fonctionnement non désiré. Cet équipement a été testé et jugé conforme aux limites d'un appareil numérique de la Classe B, en vertu de la partie 15 des règles de la FCC et de la NMB-003 canadienne. Ces limites sont conçues pour fournir une protection raisonnable contre l'interférence nuisible dans une installation résidentielle. Cet équipement génère, utilise et peut émettre de l'énergie radiofréquence et, s'il n'est pas installé et utilisé conformément aux instructions, peut causer une interférence nuisible aux communications radio. Toutefois, il n'est pas garanti que l'interférence ne se produira pas dans une installation particulière. Si cet équipement cause une interférence nuisible à la réception radio ou de programmes de télévision, laquelle peut être déterminée en éteignant et en allumant l'équipement, l'utilisateur est encouragé à essayer de corriger l'interférence par l'une ou plusieurs des mesures suivantes.

- Réorientez ou relocalisez l'antenne de réception.
- Augmentez la séparation entre l'équipement et le receveur.
- Connectez l'équipement à une prise sur un circuit différent de celui auquel le receveur est connecté.
- Consultez le vendeur ou un technicien radio/de télévision pour obtenir de l'aide. La FCC ou Industrie Canada peut vous obliger à arrêter d'utiliser votre appareil si une telle interférence ne peut pas être éliminée. GO Real-Time 2G/3G n'a pas approuvé les changements ou modifications apportés à cet appareil par l'utilisateur. Tous les changements ou modifications apportés peuvent entraîner la révocation de l'autorisation d'utilisation de l'appareil.

RF Exposure Information

This device complies with FCC radiation exposure limits set forth for an uncontrolled environment. In order to avoid the possibility of exceeding the FCC radio frequency exposure limits, human proximity to the antenna shall not be less than 20cm (8 inches) during normal operation.

ISED Notice

This device complies with Innovation, Science and Economic Development Canada license-exempt RSS standard(s). 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.

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

Innovation, Science and Economic Development Canada ICES-003 Compliance Label:
CAN ICES-3 (B)/NMB-3(B)

IC: 10124A-101009

ISED RF Exposure Statement

This device complies with ISED RSS-102 RF exposure limits set forth for an uncontrolled environment. In order to avoid the possibility of exceeding the IC RSS-102 RF exposure limits, human proximity to the antenna shall not be less than 20cm (8 inches) during normal operation.

Cet appareil est conforme aux limites d'exposition aux rayonnements de la CNR-102 définies pour un environnement non contrôlé. Afin d'éviter la possibilité de dépasser les limites d'exposition aux fréquences radio de la CNR-102, la proximité humaine à l'antenne ne doit pas être inférieure à 20 cm (8 pouces) pendant le fonctionnement normal.