



# FlexNet® SmartPoint® C&I Gas Transceiver Module

## Quick Guide

The Sensus FlexNet SmartPoint C&I Gas transceiver module for commercial applications provides wireless communication capability to gas utility meters.

### SPECIFICATIONS

The SmartPoint® 500GM, 600GM, and 800GM product with integrated FlexNet module will have a visible label containing the following information:

- Contains Model: GFL3CI
- Contains FCC ID: SDBGFL3CI
- Contains IC: 2220A-GFL3CI

### Technical Overview

The FlexNet communications network offers a simple, reliable, and secure system that is economical for mass meter deployments, strategic deployments, and rural applications while providing a multi-application solution for all AMI end points.

The FlexNet SmartPoint C&I Gas transceiver module consists of a transceiver board and antenna board mounted together.

The module communicates via the Sensus FlexNet fixed wireless telemetry network to provide application specific information to utilities and customers. The module transmits status information automatically at a programmable periodic rate and can be triggered by specific events from the utility or metering interface.

The transceiver transmits and receives data over licensed frequency bands. The transceiver printed board contains a power supply, microprocessor, transceiver, and power amplifier necessary to communicate over the FlexNet system. The antenna board has an antenna mounted on it and a read switch used to detect tampering.

The module is powered by a battery pack, capable of providing the energy needed for operation over the lifetime of the product. It provides a burst of energy as needed for peak transmission events.

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## Warnings & Hazards

### ATTENTION

Any modifications made to this device that are not approved by Sensus may void the authority granted to the user by the FCC to operate equipment.

### ATTENTION

For Class B - Unintentional Radiators:  
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.

### ATTENTION

ICES-003 Class B Notice—Avis NMB-003, Class B  
This Class B digital apparatus complies with Canadian ICES-003.

### WARNING

If you are not sure of the rated power of your radio, contact your Sensus representative or dealer and supply the product model number found on the product label. If you cannot determine the rated power out, then assure 20cm separation from the body to the device.

### WARNING

The antenna used for this transmitter must not be co-located in conjunction with any other antenna or transmitter.

### WARNING

There is danger of explosion if batteries are mishandled or incorrectly replaced. On systems with replaceable batteries, replace only with the same manufacturer and type or equivalent type recommended per the instructions provided in the product service manual.

Do not disassemble batteries or attempt to recharge them outside the system. Do not dispose of batteries in fire.

Dispose of batteries properly in accordance with the manufacturer's instructions and local regulations.

### ATTENTION

Note: 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 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

### RADIATION HAZARD

In order to satisfy the FCC/ISED RF exposure limit for transmitting devices, a separation distance of 20cm (7.8 inches) or more should be maintained while operating the Sensus GFLCI and GFL3CI. To ensure compliance, operations at closer than this distance are not recommended. This minimum safe distance is required between personnel and this antenna of this device.

### ATTENTION

This device complies with Industry 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 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.

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### ATTENTION

This radio transmitter the Sensus GFLCI and GFL3CI has been approved by Industry Canada to operate with the antenna types listed below with the maximum permissible gain and required antenna impedance for each antenna type indicated. Antenna types not included in this list, having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device.

Le présent émetteur radio (Sensus GFLCI et GFL3CI) a été approuvé par Industrie Canada pour fonctionner avec les types d'antenne énumérés ci-dessous et ayant un gain admissible maximal et l'impédance requise pour chaque type d'antenne. Les types d'antenne non inclus dans cette liste, ou dont le gain est supérieur au gain maximal indiqué, sont strictement interdits pour l'exploitation de l'émetteur.

- Monopole -1dBi

### ATTENTION

Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

Conformément à la réglementation d'Industrie Canada, le présent émetteur radio peut fonctionner avec une antenne d'un type et d'un gain maximal (ou inférieur) approuvé pour l'émetteur par Industrie Canada. Dans le but de réduire les risques de brouillage radioélectrique à l'intention des autres utilisateurs, il faut choisir le type d'antenne et son gain de sorte que la puissance isotrope rayonnée équivalente (p.i.r.e.) ne dépasse pas l'intensité nécessaire à l'établissement d'une communication satisfaisante.

### ATTENTION

Class 1, Division 2, Group D T4.  
Complies with CSA C22.2 No. 213 ANSI 12.12.01.  
Intrinsically Safe/Sécurité Intrinsèque Type D lithium battery, 3.6 VDC Max.

### WARNING

Substitution of components may impair intrinsic safety.  
Avertissement: la substitution de composants peut compromettre la Sécurité Intrinsèque.

### WARNING

DO NOT INCINERATE or subject battery cells to temperatures in excess of 212°F. Such treatment can cause cell rupture.

### WARNING

EXPLOSION HAZARD - BATTERIES MUST ONLY BE CHANGED IN AN AREA KNOWN TO BE NON-HAZARDOUS.

AVERTISSEMENT-RISQUE D'EXPLOSION - AFIN D'ÉVITER TOUT RISQUE D'EXPLOSION, S'ASSURER QUE L'EMPLACEMENT EST DÉSIGNÉ NON DANGEREUX AVANT DE CHANGER LA BATTERIE.



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