## Sagemoom



### 4. NETWORK INSTALLATION

Activate the network or the companion device to accept the pairing In order to attach the Water Meter on a network / pairing device:

- On the water meter :
- Push for a long time the button, until you reach the second menu and see 'INSTALL' written on the LCD
- Press twice rapidly on the button to edit, a 'YES' should appear.
- If LCD displays 'NO', push once on button to switch to 'YES'
- Press twice rapidly on the button to accept the installation process
- The Water Meter will send an installation request message for pairing
- On the network or the companion device : The Water Meter LCD will display a blinking antenna symbol
- request. In a network registration, this is automatic if provisionning of the Water meter was already done into Check that the pairing info are received and that it corresponds to the Water meter, and accept the pairing
- On the next installation request message send by the water meter, the network or companion device should respond with an installation success message to confirm installation.
- The Water meter antenna symbol stops blinking

### Safety instructions

of danger for the installation, for the installer or for the end must be carefully followed in order to prevent from any form regulations and rules. The instructions detailed in this guide All installations of product must be done according to safety

The following safety instructions must be observed at all

- must carefully read and scrupulously follow this meter to work on domestic water installations. This Installer formed by a qualified and trained installer, authorized The installation and commissioning must only be per-
- drinking water installation. The installation must be conform to the standard for
- Local safety regulations must be observed
- lower than 2000m. The installation altitude wrt to the sea level must be
- The product must be protected from shock and vibra-
- Any inappropriate behaviour not described in this doc ument can lead to injuries or damage of the meter.
- No part inside this product is intended to be replacea-
- intended to shipped through air transportation, the radio function must be disabled using NFC or other in-If an installed product is removed from installation and
- piping shall not rely on water meters", all meters of the grounding path or bonding connection to interior should be installed with permanently ground-strapped National Electric Code (NEC) requires that "continuity According to AWWA, even if section 250.53(D) of the

### Installation instructions

The installation instructions are the following:

- must be aligned and match the product pipe dimenduring installation. The intake and outcome piping The product must not be exposed to mechanical stress
- after a general closing tap. The meter can be installed on plastic or metallic pipe
- be cut and the remaining water flush out During installation of the meter, the water supply must
- Always used new gaskets for mounting the product Do not hold the product casing but the pipe during the
- higher than 15 N.m and not overpass 30 N.m whatever The torque applied to screw of the product must be onto the piping.
- The water supply must be re-opened smoothly, enathe thread and pipe material.
- bling air bubble to be removed without mechanical im-The provisioning onto the facility radio network can be
- done using the QR code information written on the Once water flows, the radio attachment process starts sioning is over. product cannot register on the network until this proviwork could required some time to be effective. The product. Be aware that this provisioning over the net-
- to the product. It should be activated using the optica more likely to receive radio signals and then connected external antenna must be installed in a higher place, the antenna symbol) and if product is so-equipped, an If radio link after installation is too poor (no bar next to network attachment succeed and it indicates the radio link quality to the network. When the antenna icon stops blicking, it shows that the

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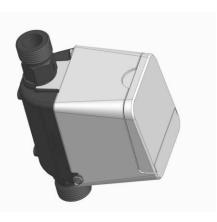
## Sagemoom



# Installation Manual

### SICONIA WATER **Smart METERs** UM20

# With LTE LPWAN radio



Optical Port (optional) & **BLE interface (optional)** 

### Sagemcom Broadband SAS

www.sagemcom.com

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### Sagemcom



### 1. METER CHARACTERISTICS

The product is a water meter intended to be installed to count volume of water passing through. It offers measurements of different flow parameters, a CAT-M1 ™ radio with an optional external antenna connector or a wired interface for connection with centralization system, an optional BLE interface, an optional optical infrared interface and a push button. The measurement data can be displayed on the front panel LCD or are also remotely available via optical, BLE or the radio.

### Certification

The CE marking attests to the conformity of the product with the international technical regulations and harmonized European standards that apply when the product is released on the market, in particular in accordance with the FCC, UL

# Innovation, Science and Economic Development Canada "ISED"

Fhis Class B digital apparatus complies with Canadian ICES- 003

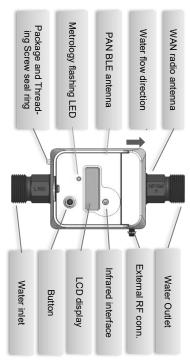
Operation is subject to the following two conditions:
1. This device may not cause harmful interference, and This product meets the applicable Innovation, Science and Economic Development Canada technical specifications. This device compiles with RSS-247 of the Innovation, Science and Economic Development Canada Rules.

MPORTANT NOTE: Radiation Exposure Statement: . This device must accept any interference received, inclu- ding interference that may cause undesired operation

equipment should be installed and operated with minimum distance 31cm (1 ft) between the device and This equipment complies with radiation exposure limits set forth for an uncontrolled environment. This

### Meters overview

An overview of the product in its standard configuration is presented in the next figure



The meter is equipped with one push button on the front panel. It is used to navigate through the different menus and sub-screens. Long push to change the menu, short push to change to the next screen of the menu, double short push to edit and validate change.

### COMMUNICATION PORTS

All communication ports are protected and requires a proper identification to work. In case of uninstalling the product from the water pipes and prior to send it by air transportation, unsure that you have desactivated all the radio

# Bluetooth Low Energy PAN radio (if equipped)

If available on the product; a BLE radio, in the frequency band 2.4 - 2.483 GHz, could be used used to read and write nformation into the applicative part of the meter

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## Sagemeon



### Infrared communication port

mation into the applicative part of the meter. An optical port compatible with IrPHY SIR 115.2kb/s could be available. This port can be used to read and write infor-

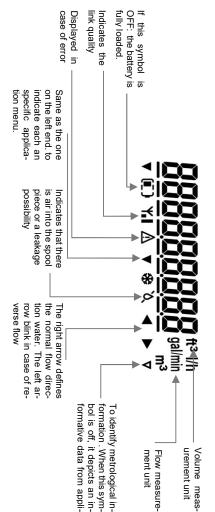
# Remote CAT-M™ WAN radio (if equipped)

The Wide Area Network radio communication port is based on a LTE 4G Cat-M1 into the band 4 and 13.

13	4			Band
777	1710	(MHz)	Low Freq	Uplink
787	1755	(MHz)	High Freq.	Uplink
746	2110	(MHz)	Low Freq.	Downlink
756	2155	(MHz)	high Freq.	Downlink
10	45		(MHz)	Band widh

### LCD DISPLAY

The meter LCD display symbols and meaning are depicted here after:



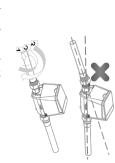
pipe must be in the same direction than the normal water flow stalled whatever the pipe orientation. The arrow on the product The product must be installed in conformance with . It can be in-

have a connection distance compatible with the product pipe Upstream and backstream water lines must be aligned and must

For proper mounting:

Make one turn by unscrewing slowly to make sure the thread is Press the rotating nut against the thread of the meter correctly engaged.

Nm max) without holding the main housing. Then engage, screw the nut by hand and finish with a wrench (30



Due to the battery chemical, the garanteed product lifetime is not achieved when the product is: With the pipe installed Horzontally and the SMA connector downward

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