

AT57-7

User Manual

Models: *AT57-7-21-5-P*
 AT57-7-21-5-OM
 AT57-7-22-5-OM

FCC ID: 2A7AA-SON2LR9INT

IC: 28664- SON2LR9INT

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CAUTION



This device complies with part 15 of the FCC Rules. The User and the Installer should be aware that changes and modifications to the equipment not expressly approved by Master Meter could void warranty and the user's authority to operate the equipment.

Professionally trained personnel should install the equipment.

The antenna used for this transmitter must be installed to normally provide minimum separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

ATTENTION



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 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.

Industry Canada (IC) Compliance Notice

This device complies with FCC Rules Part 15 and 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.

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 (EIRP) 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.

Le dispositif doit être placé à une distance d'au moins 20 cm à partir de toutes les personnes au cours de son fonctionnement normal. Les antennes utilisées pour ce produit ne doivent pas être situées ou exploitées conjointement avec une autre antenne ou transmetteur.

- This Class B digital apparatus complies with Canadian ICES-003.
- Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

Introduction

The AT57-7 LoRa water meter is a fully integrated radio and antenna solution. It is a battery-operated radio transceiver designed for automated water meter reading. The AT57-7 provides optional online data of all kinds (water consumption, temperature, Alerts, Tampering, back flow ...) It uses LoRaWAN radio for relaying water consumption data to the utility.

AT57-7 Integrate Bluetooth Low energy for field maintenance



Figure 1. AT57-7 LoRa

Functional Description

The AT57-7 LoRa meter is a battery endpoint for the application of automatic water meter reading.

The AT57-7 stored the reading in internal log and pushed the data via the radio on an hourly basis.

The standard working mode transmit 4 times a day meter reads which include high detailed information like Consumption, Flow, Meter Alarms ...

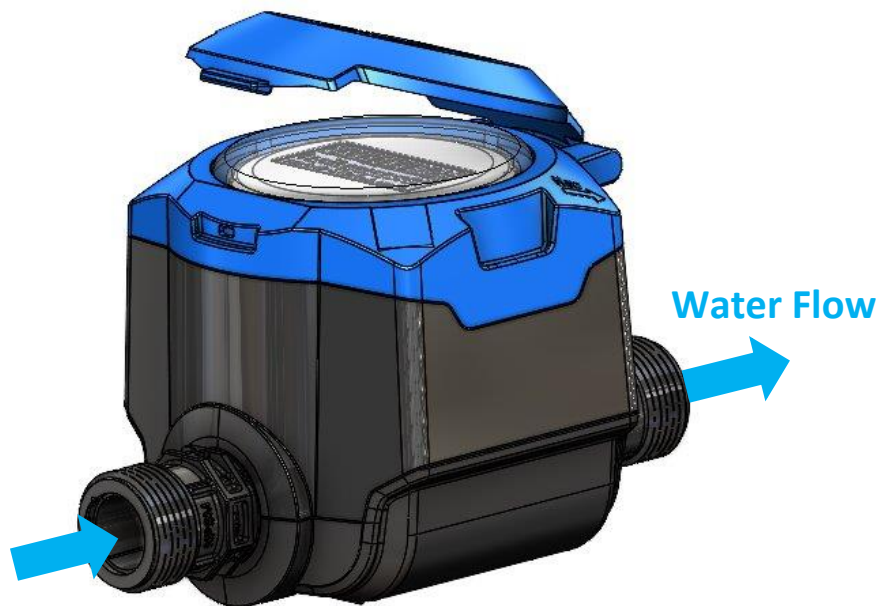


Figure 2. Operation setup illustration

Installation

AT57-7 water meter should be installed only by an authorized plumber only!

1. Remove PIT lid, Figure 3.



Figure 3

2. Install the AT57-7 to water pipe inside PIT, Figure 4.



Figure 4

3. Sweep a magnet over AT57-7 cover, by doing this AT57-7 moves from storage into active mode transmitting data based on configurable production schedule.
4. Close the Pit Lid, Figure 5



Figure 5