

SSM-COM

Communication module for SSM-ICON 250



Review C - Edition 07/2023

**OPERATION, MAINTENANCE
AND WARNING MANUAL**

1 - INTRODUCTION

PREFACE

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The Manufacturer is in no way responsible for the consequences of any operations performed in a manner different from what is stated in the manual.

GENERAL CONSIDERATIONS

All operating instructions and recommendations described in this manual must be followed to:

- get the best possible performance from the equipment;
- keep the equipment in efficient condition.

Of particular importance is the training of personnel responsible for:

- the use and maintenance of the equipment in the correct way;
- the application of the indicated safety directions and procedures.

NOTICE

The images in this document are indicative of the product type and may differ in the details.

Revision: C

1.1 - REVISION HISTORY

Revision index	Date	Review Contents
A	05/2023	First issue
B	06/2023	Chapter 2: updated Tab. 2.7, Tab. 2.8 and Fig. 2.1
C	07/2023	Added references for Canadian market

Tab. 1.1.

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2 - GENERAL INFORMATION

2.1 - MANUFACTURER IDENTIFICATION

Manufacturer	PIETRO FIORENTINI S.P.A.
Address	Via Enrico Fermi, 8/10 36057 Arcugnano (VI) - ITALY Tel. +39 0444 968511 Fax +39 0444 960468 www.fiorentini.com sales@fiorentini.com

Tab. 2.2.

NOTICE

For any problems found on the equipment, contact your gas network distributor.

2.2 - PRODUCT IDENTIFICATION

Equipment	COMMUNICATION MODULE
Series	SSM-ICON
Available models	SSM-COM-NB-NA

Tab. 2.3.

2.3 - REGULATORY FRAMEWORK

PIETRO FIORENTINI S.P.A. with registered office in Arcugnano (Italy) - Via E. Fermi, 8/10, declares that the equipment in the series SSM-COM that this manual refers to is designed, manufactured, tested and controlled in accordance with the requirements of the following standards:

- ANSI B109.1
- PS-G-06
- S-G-03 part 1 and part 7
- UL 60079-0, Edition 7, Revision Date 04/15/2020
- CSA C22.2 No. 60079-0, Edition 4, Issue Date 02/2019
- UL 913, Edition 8, Revision Date 05/10/2022
- UL 60079-11, Edition 6, Revision Date 09/14/2018
- CSA C22.2 No. 60079-11, Edition 2, Issue Date 02/2014
- IEC 60079-0, 7th Edition (2017-12) + Corr. 1 (2020-01) + I-SH 01 (2019-04) + I-SH 02 (2019-06),
- IEC 60079-11, 6th Edition (2011-06) + Corr. 1 (2012-01) + I-SH 01 (2014-10) + I-SH 02 (2016-07) + I-SH 03 (2016-07) + I-SH 04 (2019-04) + I-SH 05 (2019-08) + I-SH 06 (2019-12)
- EN IEC 60079-0:2018
- EN 60079-11:2012.
- UL 50 - Enclosures for Electrical Equipment, Non-Environmental Considerations
- UL 61010-1:2010 - Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use - Part 1: General Requirements
- UL 50E - Enclosures for Electrical Equipment, Environmental Considerations
- CSA C22.2 No. 61010-1-12 - Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use - Part 1: General Requirements
- CSA C22.2 No. 94.1 - Enclosures for Electrical Equipment, Non-Environmental Considerations
- CSA C22.2 No. 94.2 - Enclosures for Electrical Equipment, Environmental Considerations
- EN 60079-32-1: 2016 – Electrostatic hazard, guidance
- 47 CRF Part 15B : Unintentional radiators (15.109)
- ICES 003 issue 7 : Product standard for Information Technology Equipment (ITE)
- ANSI C63.4-2014: American National Standard For Methods Of Measurement Of Radio-Noise Emissions From Low-Voltage Electrical And Electronic Equipment In The Range Of 9 KHz To 40 GHz
- 47 CRF Part 15.247: operation within the bands 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz.
- RSS 247 issue 2 : Digital Transmission Systems (DTSSs), Frequency Hopping Systems (FHSs) and Licence-Exempt Local Area Network (LE-LAN) Devices
- ANSI C63.10-2013: American National Standard Of Procedures For Compliance Testing Of Unlicensed Wireless Devices

NOTICE

For specific approvals see appropriate section on the Manufacturer's website: <https://www.fiorentini.com>

2.4 - WARRANTY

PIETRO FIORENTINI S.P.A. guarantees that the equipment has been made with the best materials, with fine workmanship and complies with the quality requirements, specifications and performance envisaged in the order.

The warranty will be considered null and void and PIETRO FIORENTINI S.P.A. will not be responsible for any damage and/or malfunctions:

- for any acts or omissions of the purchaser or end user, or any of their carriers, employees, agents or any third party or entity;
- in the event that the purchaser, or a third party, makes changes to the equipment supplied by PIETRO FIORENTINI S.P.A. without the prior written authorization of the latter;
- in case of non-compliance by the purchaser with the instructions contained in this manual, as supplied by PIETRO FIORENTINI S.P.A.

NOTICE

The warranty conditions are specified in the commercial contract.

2.4.1 - REFERENCE OPERATING CONDITIONS

The reference operating conditions for battery life calculation are described in :

Operating condition	Reference indications
Firmware code update	3 times in 20 years
Communication	Version LTE Cat. M1 - Cat. NB2: <ul style="list-style-type: none"> • 4 communications per day

Tab. 2.4.

In addition to what is defined in , the ambient temperature has an effect on battery life. The operating profile used to calculate the expected battery life is provided in :

Ambient temperature	Reference indications
	1% of the time at -31 °F
	2% of the time at -13 °F
	3% of the time at -5 °F
	5% of the time at +23 °F
	15% of the time at +41 °F
	50% of the time at +59 °F
	15% of the time at +77 °F
	5% of the time at +95 °F
	3% of the time at +113 °F
	1% of the time at +131 °F

Tab. 2.5.

2.5 - RECIPIENTS, SUPPLY AND CONSERVATION OF THE MANUAL

The manual is intended for the qualified operator responsible and enabled to use and manage the equipment in all its phases of technical life.

It contains the information necessary for correct use of the equipment, in order to keep its functional and qualitative characteristics unchanged over time. All the information and warnings for correct use in complete safety are also provided.

The manual, like the declaration of conformity and/or test certification, is an integral part of the equipment and must always accompany it in every transfer or change of ownership. It is the responsibility of licensed professionals (reference paragraph 2.10) to use and operate the equipment.

⚠ WARNING

It is forbidden to remove, rewrite or modify the pages of the manual and their contents.

PIETRO FIORENTINI S.p.A. declines all responsibility for any damage to people, animals and things caused by failure to observe the warnings and operating methods described in this manual.

2.6 - LANGUAGE

The original manual was written in Italian.

Any translations must be made starting from the original manual.

⚠ DANGER

Language translations cannot be fully verified. If an inconsistency is found, the text of the original manual must be followed.




If inconsistencies are found or the text is not understandable:

- suspend all action;
 - immediately contact PIETRO FIORENTINI S.p.A. at the addresses given in paragraph 2.1 ("Manufacturer's Identification").
-

⚠ WARNING

PIETRO FIORENTINI S.p.A. is only responsible for the information contained in the original manual.

2.7 - SYMBOLS USED IN THE MANUAL

Symbol	Definition
	Symbol used to identify important warnings for operator and/or equipment safety.
	Symbol used to identify particularly important information in the manual. The information may also concern the safety of personnel involved in using the equipment.
	Obligation to consult the instruction manual/booklet. Indicates a requirement for personnel to consult (and understand) the operating and warning instructions of the equipment before working with or on it.

Tab. 2.6.

⚠ DANGER

It signals a hazard with a high level of risk, an imminent hazardous situation that, if not avoided, will cause death or serious harm.

⚠ WARNING

It signals a hazard with a medium level of risk, a potentially hazardous situation that, if not avoided, could result in death or serious harm.

⚠ CAUTION

It signals a hazard with a low level of risk, a potential hazard situation that, if not avoided, could cause minor or moderate harm.

NOTICE


It signals specific warnings, directions, or notes of special interest unrelated to physical injury and practices for which physical injury is not a credible possibility.

2.8 - IDENTIFICATION PLATES APPLIED

The equipment and its accessories are equipped with identification plates (Id.1).

The plates bear the identification details of the equipment and its accessories to be quoted if necessary to PIETRO FIORENTINI S.p.A.

List of applied identification plates:

Id.	Plate type	Image
1	Mod. SSM-COM-NB-NA	

Tab. 2.7.

⚠ WARNING

It is absolutely forbidden to remove the identification plates and/or replace them with others.

If, for accidental reasons, the plates are damaged or removed, the customer must inform **PIETRO FIORENTINI S.p.A.**

2.8.1 - DESCRIPTION OF IDENTIFICATION PLATES

The identification plate bears the information described in :

Pos.	Description
1	Manufacturer's Logo
2	Identification of the gas outlet connection, when installed on SSM-ICON 250
3	Communication module series
4	Identification number related to FCC/ISED certification
5	Class, Division, Group and Temperature Class as defined by NEC 500
6	Operating ambient temperature range
7	Year of manufacture of the meter
8	SSM-COM communication device model
9	Device serial number (barcode 39)
10	UL file number
11	Device serial number
12	WARNING: special condition for safe use
13	Type of protection warning
14	Manufacturer address

Tab. 2.8.

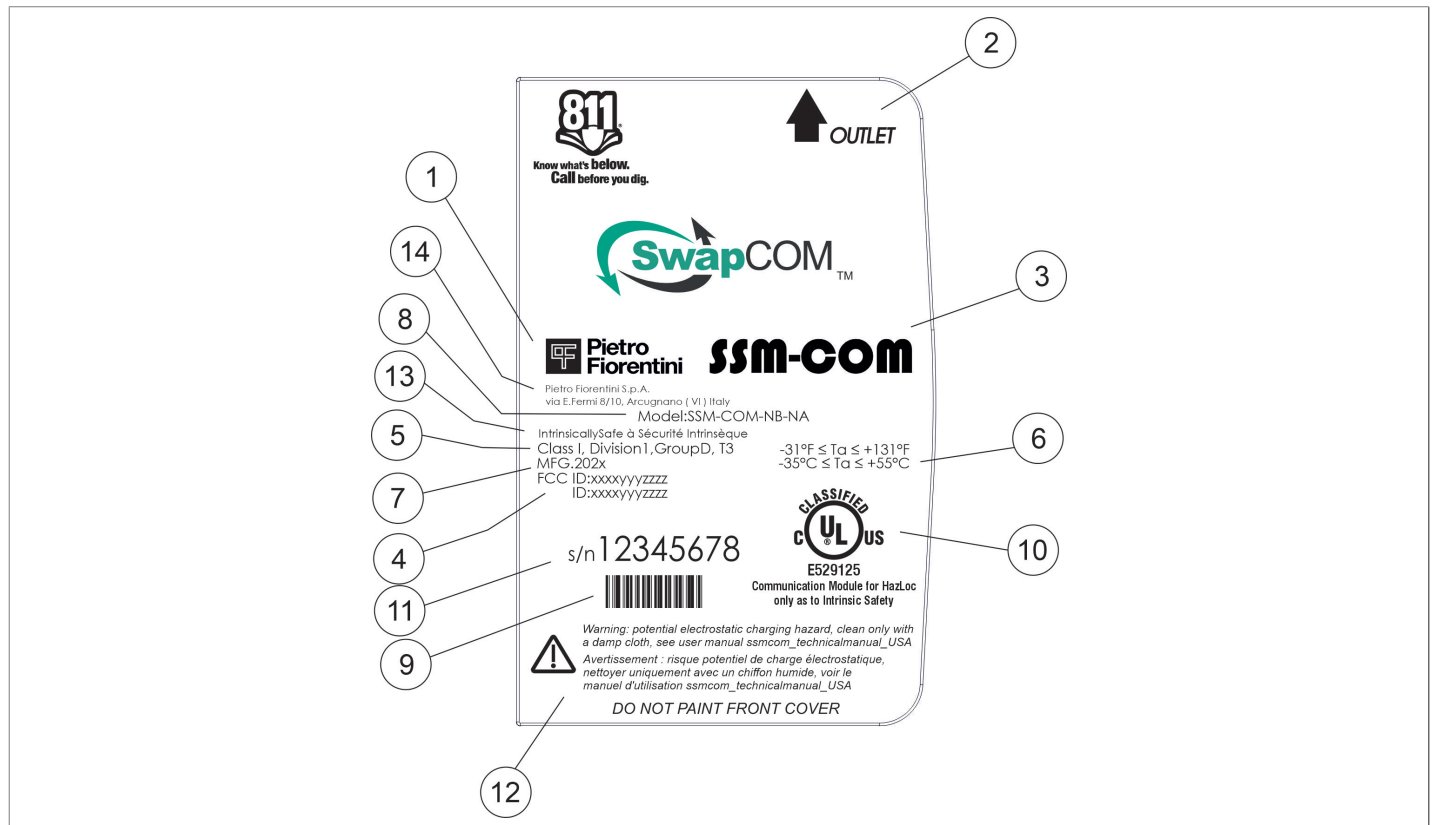


Fig. 2.1. Description of identification plates

2.8.2 - MARKING RECAPITULATION

Hazardous Location Marking: **Class I Division 1 Group D T3 -35 °C ≤ Ta ≤ +35 °C**

Marking	Description
Class I	The equipment is intended to be used in presence of flammable gases or vapours
Division 1	As defined in Article 500 of the National Electrical Code, NFPA 70, and in the Canadian Electrical Code, Part I, C22.1, include locations defined in Article 505 of NFPA 70 and the International Electro-technical Commission (IEC) as Zone 0. Zone 0 locations are hazardous because of the presence of flammable or combustible materials within the flammable range all or a large percentage of the time.
Group D	Flammable gas, flammable liquid produced vapor, or combustible liquid produced vapor mixed with air that may burn or explode, having either a maximum experimental safe gap (MESG) value greater than 0.75 mm or a minimum igniting current (MIC) ratio greater than 0.80. A typical Class I, Group D material is propane.
T3	Maximum allowable surface temperature: 200°C.
-35 °C to +55 °C	Ambient temperature range

Tab. 2.9.

2.9 - MEASUREMENT UNIT GLOSSARY

Measurement type	Unit of measurement	Description
Consumption and Volumetric flow	Scfh	Standard cubic feet per hour
	Scf	Standard cubic feet
	Cfh/h	Cubic meters per hour
	Cf	Cubic feet
Pressure	bar	Bar
	ˆwc	Inch of water column
	Pa	Pascal
Temperature	°C	Celsius degree
	°F	Degree Fahrenheit
	K	Kelvin
Tightening torque	Nm	Newton meter
	ft-lb	Foot pound
Other measurements	V	Volt
	W	Watt
	Ω	Ohm

Tab. 2.10.

2.10 - QUALIFIED PROFESSIONALS

Qualified operators in charge of operating and managing the equipment in all its technical life stages for the use for which it was supplied:

Professional	Definition
<p style="text-align: center;">Installer</p>	<p>Qualified operator able to:</p> <ul style="list-style-type: none"> • handle materials and equipment. • carry out all the operations necessary for a correct and safe installation of the equipment; • carry out all the operations necessary for the correct functioning of the equipment and the system in safety; • be able to perform all necessary operations for the de-installation and subsequent disposal of the equipment in accordance with the regulations in the country of installation.
<p style="text-align: center;">Specialized technician/Maintenance technician</p>	<p>Trained and licensed technician to operate and manage the equipment who must:</p> <ul style="list-style-type: none"> • be able to carry out all the operations necessary for the proper functioning of the equipment and system, guaranteeing their own safety and that of any third parties present; • perform maintenance activities on all parts of the equipment subject to maintenance (board and batteries); • have access to all parts of the device for visual analysis, equipment status checking, adjustments and calibrations; • have proven experience in the correct use of equipment such as those described in this manual and be trained, informed and instructed accordingly.

Tab. 2.11.

3 - SAFETY

3.1 - GENERAL SAFETY WARNINGS

⚠ WARNING

The equipment described in this manual is normally installed on the SSM-iCON 250 meter and therefore integrated into systems carrying flammable gases (for example: natural gas).

⚠ WARNING

The user and installer of this device are required to comply with all national, state, and local laws required to avoid the hazards of gas leaks resulting from improper installation, startup, or use of this product or not described in the following manual.

It is also necessary that all fire controls, building codes, or other safety regulations established by public laws governing the installation, operation, or use of this product be complied with.

⚠ WARNING

If the gas used is a combustible gas, the area where the equipment is installed is called a "danger zone" because there are residual risks of the formation of potentially explosive atmospheres.

In and around "danger zones" it is absolutely:

- necessary there are no effective ignition sources present;
 - prohibited to smoke.
-

⚠ WARNING

It is forbidden to repair or make modifications to the equipment.

⚠ CAUTION

Authorized operators shall not perform operations or interventions on their own initiative that are not within their competence.

Never work on the equipment:

- Under the influence of exciting substances such as, for example, alcohol;
 - In the case of using drugs that can lengthen reaction time.
-

NOTICE

The employer must train and inform operators on how to behave during operations and what equipment to use.

Before installation, commissioning or maintenance, operators must:

- Take note of the safety regulations applicable to the installation site where they are to operate;
- Obtain, when required, the necessary authorizations to operate;
- Equip themselves with the necessary personal protective equipment required in the procedures described in this manual;
- Ensure that the area in which they are to work is equipped with the required collective protections and necessary safety signs.

SAFETY SPECIFICATION FOR CANADA (FRENCH)

⚠ WARNING

Il est interdit de réparer ou modifier l'équipement.

3.2 - SAFETY INSTRUCTIONS

SSM-COM is an intrinsically safe apparatus suitable for use in hazardous areas Class I, Division 1, Group D, Temperature Class T3.

The relevant standard for compliance with safety requirements is UL 913, Intrinsically Safe Apparatus and Associated Apparatus for Use in Class I, II, and III, Division 1, Hazardous (Classified) Locations, Edition 8, Revision Date 05/10/2022.

3.2.1 - ELECTROSTATIC DISCHARGES

This apparatus is approved for installations in high explosion hazard areas (area where an explosive atmosphere consisting of a mixture of air and flammable substances in the form of gas, vapor or mist is present permanently or for long periods or often). In these areas, sparks produced by electrostatic discharge can produce explosions.

⚠ WARNING

Electrostatic discharge protection measures should be implemented when installing or using this apparatus.

Further information can be found in IEC TS 60079-32-1: among possible actions, one example is the use of dissipative footwear and a damp cloth (>65%) during installation/maintenance operations.

SAFETY SPECIFICATION FOR CANADA (FRENCH)

Cet appareil est approuvé pour les installations situées dans des zones à risque élevé d'explosion, où une atmosphère explosive constituée d'un mélange d'air et de substances inflammables sous forme de gaz, de vapeur ou de brouillard est présente de façon permanente ou pendant de longues périodes ou souvent. Dans ces zones, les étincelles produites par décharge électrostatique peuvent produire des explosions.

⚠ WARNING

Des mesures de protection contre les décharges électrostatiques doivent être mises en œuvre lors de l'installation ou de l'utilisation de cet appareil.

De plus amples informations sont disponibles dans le document IEC TS 60079-32-1 : parmi les actions possibles, on peut citer l'utilisation de chaussures dissipatives et d'un chiffon humide (>65%) pendant les opérations d'installation/maintenance.

NOTICE

PIETRO FIORENTINI S.p.A. disclaims all liability from the risks and consequences of non-compliance with these requirements.

3.2.2 - CONNECTING TO OTHER DEVICES

An optical connection of the apparatus SSM-COM with the SSM-ICON 250 apparatus is provided.

3.2.3 - POWER DEVICES

SSM-COM is powered by non-replaceable primary battery.

3.2.4 - SAFETY INSTRUCTIONS FOR INSTALLATION IN HAZARDOUS AREAS

This apparatus shall be installed and put into operation according to current regulations and standards.

NOTICE

PIETRO FIORENTINI S.p.A. is not liable for damage caused by failure to follow instructions and inappropriate use.

Safety directions

All work on the apparatus must be done by qualified personnel.

Transformation and spare parts

Any technical modification is forbidden.

Transport

As a rule SSM-COM should be transported upright and inside the original packing box provided by PIETRO FIORENTINI S.p.A. When you receive the apparatus, examine the material provided.

Report any transportation damage immediately.

The Federal Aviation Administration prohibits the operation of transmitters and receivers on all commercial aircraft. When the device is powered, connected to SSM-iCON 250 and not in flight mode, it is considered a transmitter and receiver in operation and cannot be sent by air.

All products not in "Flight mode" must be shipped by land transportation.

Storage

As a rule SSM-COM should be stored upright in a dry place at room temperature (see paragraph 6.6.1).

⚠ WARNING

- **When connected to the SSM-ICON 250 meter, the arrow and "INLET" lettering on the left front of the meter indicates the direction of gas flow and the gas inlet connection. An arrow indicating gas flow is also present on the top of the meter between the two gas inlet and outlet connections. On the other hand, the arrow on the right front of the SSM-COM device indicates the gas flow exit direction.**
 - **Install the apparatus in a compartment that meets current safety requirements, protected from possible mechanical damage, at least 3ft (90cm) away from heat sources or open flames, in a dry and ventilated place, protected from external agents and corrosion, and in an easily accessible location.**
 - **It is not recommended to install the device outside the temperature ranges it was designed for (see par. 6.6).**
 - **It is forbidden to repair or make modifications to the apparatus.**
 - **Installation, removal and any work should be carried out by trained personnel in accordance with current safety requirements.**
-

SAFETY SPECIFICATION FOR CANADA (FRENCH)

⚠ WARNING

Il est interdit de réparer ou modifier l'équipement.

3.3 - COMPLIANCE FOR UNITED STATES OF AMERICA

The communication module SSM-COM complies with Part 15 of the US Federal Communications Commission (FCC) standard. The limits are designed to provide reasonable protection against harmful interference in a residential installation. During its normal operation, the device may not cause harmful interference and must accept any interference that may cause undesired operation.

The device must be installed to provide a separation distance of at least 7.9 inches from all persons to comply with RF exposure regulations.

USA, FCC Class B-Part 15

The communication module SSM-COM has been tested and found to comply with the limits for Class B digital devices under Part 15 of the FCC standard. The limits are set to provide reasonable protection against harmful interference in a residential installation.

This device generates, uses, and can radiate radio frequency energy. If not installed and used according to instructions, it may cause harmful interference to radio communications.

It cannot be guaranteed 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:

- redirect or reposition the receiving antenna
- increase the distance between the equipment and the receiver
- connect the equipment to an outlet on a circuit other than the one the receiver is connected to
- consult your dealer or an experienced radio technician

Modifications and repairs

To ensure system performance, the device and antenna should not be changed or modified without the express approval of PIETRO FIORENTINI S.p.A.. According to the FCC standard, unapproved modifications or operation beyond or contrary to these operating instructions may invalidate the user's authorization to operate the equipment

3.4 - COMPLIANCE FOR CANADA

Communication module SSM-COM complies with the license-exempt RSS standards of Innovation, Science and Economic Development Canada (ISED).

Operation is subject to the following two conditions:

- the device cannot cause interference,
- this device must accept any interference, including interference that may cause undesired operation of the device.

According to ISED regulations, this radio transmitter can only operate using an antenna of the maximum type and gain (or less) approved for the transmitter by Industry Canada.

To reduce potential radio interference to other users, the type of antenna and its gain should be chosen so that the equivalent isotropic radiated power (e.i.r.p.) does not exceed that required for effective communication.

SAFETY SPECIFICATION FOR CANADA (FRENCH)

Le compteur SSM-COM est conforme aux normes RSS d'Innovation, Sciences et Développement économique Canada. L'exploitation est soumise aux deux conditions suivantes :

- le dispositif ne peut pas causer d'interférences,
- cet appareil doit accepter toute interférence, y compris toute interférence pouvant causer un fonctionnement indésirable de l'appareil.

Selon les règlements d'ISDE, cet émetteur radio ne peut fonctionner qu'avec une antenne du type et du gain maximum (ou inférieur) approuvés pour l'émetteur par Industrie Canada.

Afin de réduire les interférences radio potentielles pour les autres utilisateurs, le type d'antenne et son gain devraient être choisis de manière à ce que la puissance isotrope rayonnée équivalente (p.i.r.e.) ne dépasse pas celle requise pour une communication efficace.

3.5 - RADIO FREQUENCY EXPOSURE (ACCORDING TO FCC AND ISED)

The communication module SSM-COM:

- complies with the radiation exposure limits set for an uncontrolled environment.
- must be installed and used at a minimum distance of 7.9 inches between the radiator and the body
- should not be placed or used together with other antennas or transmitters.

SAFETY SPECIFICATION FOR CANADA (FRENCH)

Le compteur SSM-COM :

- respecte les limites d'exposition au rayonnement établies pour un environnement non contrôlé.
- doit être installé et utilisé à une distance minimale de 20 cm (7,8 pouces) entre le radiateur et le corps humain.

3.6 - PERSONAL PROTECTIVE EQUIPMENT

The following table shows the Personal Protective Equipment (PPE) and its description; an obligation is linked to each symbol. Personal protective equipment means any equipment intended to be worn by the worker for the purpose of protecting him against one or more hazards likely to threaten his safety or health while at work.

For the assigned workers, depending on the type of work required, the most appropriate P.P.E. from that listed at Tab. 3.12 will be reported and should be used:

Symbol	Meaning
	Obligation to use protective or insulating gloves. Indicates a requirement for personnel to use protective or insulating gloves.
	Obligation to use safety glasses. Indicates a requirement for personnel to use protective goggles to protect their eyes.
	Obligation to use safety shoes. Indicates a requirement for personnel to use safety shoes to protect their feet.
	Obligation to use noise protection devices. Indicates a requirement for personnel to use earmuffs or earplugs for hearing protection.
	Wear appropriate protective clothes. Indicates a requirement for personnel to wear the specific protective clothing.
	Mandatory use of protective mask. Indicates a requirement for personnel to use masks for respiratory protection in the event of a chemical hazard.
	Mandatory use of protective helmet. Indicates a requirement for personnel to use the protective helmet.
	Obligation to wear high-visibility vest. Indicates a requirement for personnel to use high-visibility vests.

Tab. 3.12.

⚠ WARNING

Each licensed operator is required to:

- take care of his own health and safety and that of other persons in the workplace, on whom the effects of his actions or omissions fall, in accordance with his training, instructions and means provided by the employer;
- use the PPE provided appropriately;
- Immediately report to the employer, manager or supervisor deficiencies in the means and devices as well as any hazardous conditions of which they become aware.

3.7 - OBLIGATIONS AND PROHIBITIONS

The list of obligations and prohibitions to be observed for operator safety is given below.

It is mandatory to:

- carefully read and understand the operation, maintenance and warning manual;
- view the data on the identification plates and the manual before installing the equipment;
- avoid violent shocks and impacts that could damage the equipment.

It is forbidden to:

- operate in various capacities on the equipment without the PPE specified in the work procedures described in this manual;
- operate in the presence of open flames or approach open flames to the work area;
- smoke near the equipment or while you are working on it;
- use the equipment with parameters different from those indicated on the identification plate;
- use the equipment outside the operating temperature range stated on the identification plate and indicated in this manual;
- install or use the equipment in environments other than those specified in this manual.

3.8 - RESIDUAL RISKS

Communication module SSM-COM is certified Class I, Division 1, Group D and is approved for installations in high explosion hazard areas, that is, areas where an explosive atmosphere consisting of a mixture of air and flammable substances in the form of gas, vapor or mist is present permanently or for long periods.

Ensure that the area is free from hazards when installing, maintaining, cleaning, or touching the device.

Follow your company's safety procedures in connection with the installation and maintenance of the device.

⚠ WARNING

In case of functional abnormalities, operation is prohibited.

Contact PIETRO FIORENTINI S.p.A. immediately for necessary guidance.

3.8.1 - ELECTROSTATIC DISCHARGE RISK

The communication module SSM-COM is certified Class I, Division 1, Group D T3 and is approved for installations in high explosion hazard areas, i.e., areas where an explosive atmosphere consisting of a mixture of air and flammable substances in the form of gas, vapor or mist is present permanently or for long periods.

Ensure that the area is free from hazards when installing, maintaining, cleaning, or touching the device.

Follow your company's safety procedures in connection with the installation and maintenance of the device.

In these areas, due to the presence of gases in the atmosphere, sparks produced by electrostatic discharges could still produce explosions in extreme cases.

⚠ WARNING

During installation, configuration and maintenance of the equipment, it is mandatory to implement electrostatic discharge protection measures.

During the different operational steps, to avoid the risk, the licensed operator must:

Operational steps	Obligations of the operator
Installation	<ul style="list-style-type: none"> • Wear professional safety footwear with ESD features; • Wear work clothes that dissipate electrostatic charges; • Use a damp cloth for cleaning.
Configuration	<ul style="list-style-type: none"> • Wear professional safety footwear with ESD features; • Wear work clothes that dissipate electrostatic charges.
Maintenance	<ul style="list-style-type: none"> • Wear professional safety footwear with ESD features; • Wear work clothes that dissipate electrostatic charges; • Use a damp cloth for cleaning.

Tab. 3.13.

3.9 - SECURITY AND ANTI-FRAUD

Access to the internal parts of the device is protected. Any attempt at access causes obvious damage to mechanical parts, especially access:

- to the electronics, this is not possible without permanent damage to the front cover of the device;
- to the (non-replaceable) battery, this is not possible without permanent damage to the front cover of the device.

Any attempt to remove the SSM-COM communication module from the SSM-ICON 250 gas meter will permanently damage the seal cover.

NOTICE





No configurations are provided for the device SSM-COM.

Also:

- commands sent by external apparatuses through communication channels are verified in terms of source authenticity;
- messages transmitted through communication channels carrying sensitive information are all effectively encrypted;
- the duration of the conditions is monitored and recorded by the firmware.

3.10 - SAFETY PICTOGRAMS

Equipment and/or packaging PIETRO FIORENTINI S.p.A. may display the safety pictograms described in Tab. 3.14:

Symbol	Definition
	Symbol used to identify a GENERIC HAZARD.
	Symbol used to identify HAZARDS GENERATED BY STATIC ELECTRICITY.
	Symbol applied to on packages to identify the type of hazard and risks related to the product being transported. Class 9 miscellaneous hazardous materials (lithium metal batteries)
	The symbol indicates that the product should not be disposed of as unsorted waste but should be sent to separate collection facilities for recovery and recycling

Tab. 3.14.

WARNING

It is absolutely forbidden to remove or alter the safety pictograms on the equipment or packaging.

4 - DESCRIPTION AND OPERATION

4.1 - GENERAL DESCRIPTION

The equipment SSM-COM is a device used for remote data communication. It interfaces exclusively with the SSM-ICON 250 meter through an optical serial channel. A gasket protects the optical communication channel from the entry of dust and water. The main elements of the equipment are (see Fig. 4.2.):

Pos.	Description	Pos.	Description
1	Plastic cover with rating plate data	4	Sealing gasket
2	Plastic enclosure	5	Fastening points to SSM-iCON 250*
3	Optical serial port for connection to SSM-ICON 250*.	-	

Tab. 4.15.

* SSM-ICON 250 is not shown in the figure and is not the subject of this manual



Fig. 4.2. General description SSM-COM

4.1.1 - POWER DEVICES

The equipment SSM-COM can only be powered by the approved battery pack.

The battery is not replaceable in the field. In the event of battery depletion, the entire device needs to be replaced.

NOTICE

Please refer to paragraph “4.3 - Technical data” for technical details of the battery packs and reference operating conditions.

4.1.1.1 - CONNECTION OF POWER DEVICES

NOTICE

The equipment SSM-COM comes with the battery pack already connected and ready for use in the field.

4.1.1.2 - POWER STATUS

A calculation of actual consumption is made for the battery based on:

- the time elapsed since its first activation;
- the individual functions actually performed (data transmission to and from the SAC, optical communication with SSM-ICON 250, etc.);
- the weight in terms of consumption defined for each specific functionality in laboratory tests conducted by the Manufacturer;
- when a 10% charge is remaining, an alarm is recorded and can be shown on the display of the SSM-ICON 250 gas meter which is normally installed.

4.1.2 - COMMUNICATION INTERFACE

Interface	Type	Description
Remote	Wireless communication	LTE CatM1/NB2

Tab. 4.16.

4.2 - INTENDED USE

4.2.1 - INTENDED USE

The equipment in question is intended for:

Operation	Allowed	Not Allowed	Processing environment
Gas volume metering	Data generated by the gas meter SSM-iCON 250, which is normally installed.	Any type of gas other than permitted.	Application at redelivery end points of gas networks for: <ul style="list-style-type: none"> residential use; commercial use.

Tab. 4.17.

The equipment in question has been designed to be used only within the limits indicated on the identification plate and according to the instructions and limits of use given in this manual.

The indications to work safely are:

- use within the limits stated on the identification plate and on this manual;
- compliance with the procedures of the user manual;
- execution of routine maintenance in the times and in the manner indicated;
- execution of extraordinary maintenance in case of need;
- Do not tamper with and/or bypass the safety devices.

4.2.2 - REASONABLY FORESEEABLE MISUSE

Reasonably foreseeable misuse means the use of the equipment in a way not foreseen at the design stage but which may result from easily predictable human behavior:

- use of the equipment other than as envisaged in the paragraph "**Intended use**".
- instinctive reaction of an operator in the event of a malfunction, accident or failure during the use of the equipment;
- conduct resulting from carelessness;
- behavior deriving from the use of the equipment by unqualified and unsuitable persons;

Any other use of the equipment than that envisaged must be authorized in advance in writing by PIETRO FIORENTINI S.p.A. In the absence of written permission, the use is considered "**improper**".

In the presence of "improper use", PIETRO FIORENTINI S.p.A. declines all responsibility in relation to any damage caused to things or people and considers any type of warranty on the equipment lapsed.

4.3 - TECHNICAL DATA

General features	
Electronic enclosure	Polycarbonate
Enclosure protection rating	IP68 (not UL tested) 3 ft/6 hr; NEMA4X
Operating ambient temperature	from -35 °C to +55 °C (-31 °F to +131 °F)
Danger zone marking	Class I, Division 1, Group D, T3
Altitude	up to (16400 ft)
Environmental conditions	Extended outdoor environment
Humidity	Condensate 100%
Overvoltage category	N/A
Pollution rating	2
Means of protection	Class III (SELV)

Tab. 4.18.

Remote communication features	
Communication band	SSM-COM-NB-NA Band 2, 4, 12, 13, 66, 71, 85

Tab. 4.19.

Battery characteristics	
Metrological battery pack	Type: Non-rechargeable and non-replaceable Li-SoCl ₂ 3.6V, Size DD battery Autonomy: ≥ 20 years if the service SLA is met (low power operation)

Tab. 4.20.

5 - USER INTERFACE

NOTICE

The device does not have a user interface. All configuration operations are carried out by the SSM-ICON 250 meter to which it is coupled.


6 - TRANSPORT AND HANDLING

6.1 - SPECIFIC WARNINGS FOR TRANSPORT AND HANDLING

NOTICE

The transport and handling activities, in compliance with the regulations in force in the country of destination of the equipment, must be carried out by personnel:

- qualified (specially trained);
- aware of the rules of accident prevention and safety in the workplace;
- authorized to use the lifting equipment and vehicles.

Transport and handling	
Operator qualification	<ul style="list-style-type: none"> • Installer.
PPE required	<div style="display: flex; align-items: center;">  <div> <p style="background-color: #ff8c00; color: white; padding: 2px; margin: 0;">⚠ WARNING</p> <p>The PPE listed in this chart relates to the risk associated with the equipment. For the PPE required to protect against risks associated with the workplace, installation or operating conditions, refer to:</p> <ul style="list-style-type: none"> • the regulations in force in the country of installation; • <u>any indications provided by the Safety Manager at the installation facility.</u> </div> </div>
Weights and dimensions of the equipment	For dimensions and weights, refer to paragraph 6.2 "Physical characteristics of the equipment".

Tab. 6.21.

6.1.1 - PACKAGING AND FASTENING SYSTEMS USED FOR TRANSPORT

The transport packaging has been designed and manufactured in order to avoid damage during normal transport, storage and handling. The equipment should be kept in the packaging until installation.

Upon receipt of the equipment, it is necessary to:

- check that the packaging is intact and that no part has been damaged during transport and/or handling;
- immediately report to PIETRO FIORENTINI S.p.A. any damage found.

NOTICE

PIETRO FIORENTINI S.p.A. is not liable for damage to property or persons caused by accidents caused by failure to comply with the instructions given in this manual.

In Tab. 6.22. the type of packaging used is described:

Ref.	Type of packaging	Image
A	Single cardboard box	

Tab. 6.22.

6.2 - PACKAGE CONTENTS

The package contains:

Content description
<p>SSM-COM including 2 screw cover seals and 2 M4x12 screws for attachment to SSM-ICON 250.</p> <p>NOTICE</p> <p>The batteries are already electrically connected internally in their place of operation.</p>

Tab. 6.23.

NOTICE

The operation, maintenance and warning manual is downloadable from the Manufacturer's website:
<https://www.fiorentini.com>

6.3 - PHYSICAL CHARACTERISTICS OF THE EQUIPMENT

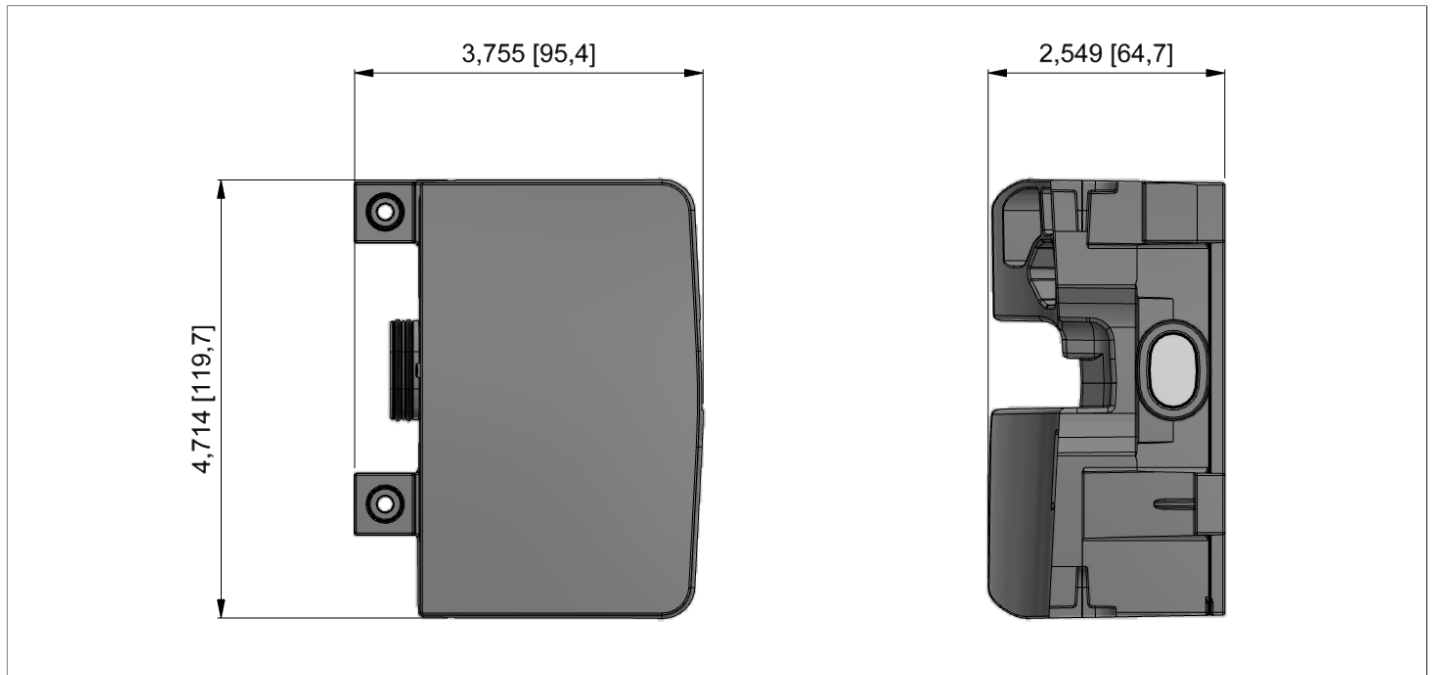


Fig. 6.3. SSM-COM Standard Dimensions

Weight of the communication module SSM-COM: 0.65 lbs

6.4 - METHOD FOR ANCHORING AND LIFTING THE EQUIPMENT

⚠ DANGER

The use of lifting equipment (if required) for unloading, transporting and handling of packages is reserved only for qualified operators who have received adequate training and instruction (holding the appropriate license when regulations in the country of installation require it) and knowledgeable:

- of accident prevention rules;
 - of safety in the workplace;
 - of the functionality and limitations of the lifting equipment.
-

⚠ DANGER

Before moving a load, make sure that its weight does not exceed the load capacity of the lifting means (and any other equipment) indicated on the specific plate.

⚠ CAUTION

Before moving the equipment:

- remove or firmly secure any moving or hanging component to the load;
 - protect the most delicate equipment;
 - check that the load is stable;
 - make sure you have perfect visibility along the route.
-

6.4.1 - FORKLIFT HANDLING METHOD

⚠ DANGER

It is forbidden to:

- pass under suspended loads;
- move the load over the personnel working in the site/plant area.

⚠ WARNING

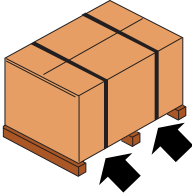
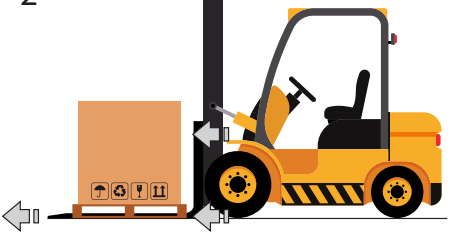

On forklift trucks it is forbidden to:



- transport passengers;
- lift people.

⚠ WARNING

Use extreme care during all handling operations in order to avoid shock or vibration of equipment batteries.


If the cardboard boxes (single or multiple) are supported by a pallet, proceed as shown in Tab. 6.24

Step	Operation	Image
1	Place the forklift forks under the loading surface.	
2	Make sure that the forks protrude from the front of the load (at least 5 cm), for a sufficient length to eliminate any risk of the transported load tipping over.	
3	Raise the forks until contact with the load. NOTICE <u>If necessary, secure the load to the forks with clamps or similar devices.</u>	

Step	Operation	Image
4	<p>Slowly lift the load by a few tens of centimeters to check its stability making sure that the center of gravity of the load is positioned in the center of the lifting forks.</p>	<p>4</p> 
5	<p>Tilt the mast backwards (toward the driver's seat) to take advantage of the tipping moment and ensure greater stability of the load during transport.</p>	<p>5</p> 
6	<p>Adjust the transport speed according to the flooring and the type of load, avoiding sudden maneuvers.</p> <p>⚠ WARNING</p> <p>If:</p> <ul style="list-style-type: none"> • encumbrances along the route; • particular operating situations; <p>do not allow the operator a perfect view, the assistance of an operator on the ground is required, placed outside the range of action of the lifting means, with the task of signaling.</p>	-
7	<p>Place the load in the chosen installation area.</p>	-

Tab. 6.24.

6.5 - UNPACKING

Packing removal	
Operator qualification	<ul style="list-style-type: none"> • Installer.
PPE required	<div style="display: flex; align-items: center;">  </div> <p>⚠ WARNING</p> <p>The PPE listed in this chart relates to the risk associated with the equipment. For the PPE required to protect against risks associated with the workplace, installation or operating conditions, refer to:</p> <ul style="list-style-type: none"> • the regulations in force in the country of installation; • any indications provided by the Safety Manager at the installation facility.

Tab. 6.25.

When unpacking cardboard boxes (single or multiple) supported by a pallet, proceed as described in Tab. 6.26

Step	Operation
1	Remove the stretch film around the pallet.
2	Remove 4 support brackets.
3	Move the equipment boxes from the pallet to their intended place. <p>NOTICE</p> <p>To manually handle the packages, if their size/weight requires it, employ at least 2 operators.</p>

Tab. 6.26.

NOTICE

After removing all packing materials, check for any anomalies.

In the presence of anomalies:

- do not perform the installation operations;
- contact PIETRO FIORENTINI S.p.A. communicating the data shown on the identification plate of the equipment.

⚠ WARNING

The individual equipment is contained in a specially designed cardboard box.

Avoid taking the equipment out of the box before installation.

6.5.1 - PACKAGING DISPOSAL

NOTICE

Separate the various materials making up the packaging and dispose of them in compliance with the regulations in force in the country of installation.

6.6 - STORAGE AND ENVIRONMENTAL CONDITIONS

⚠ WARNING

Protect the equipment also from accidental blows and shocks until it is installed.

NOTICE

Meters should be stored in an upright position.

The minimum environmental conditions expected if the equipment is to be stored for a long period are given in Tab. 6.27. Compliance with these conditions guarantees the stated performance:

Terms and conditions	Data
Maximum storage period	A maximum storage period is not defined as it is limited only by the life of the product.
Storage temperature	-40 °F to +150 °F
Relative humidity	95%

Tab. 6.27.

7 - INSTALLATION

7.1 - GENERAL WARNINGS

⚠ WARNING

Installation must be carried out by trained personnel in accordance with current safety requirements.

⚠ WARNING

For the safe use of the equipment, observe the permissible environmental conditions and follow the data provided on the identification plate.

⚠ WARNING

It is forbidden to make changes to the equipment.

⚠ WARNING

PIETRO FIORENTINI S.p.A. shall not be liable for damage caused by improper installation of the equipment and/or otherwise different from what is stated in this manual.

7.2 - INSTALLATION PRE-REQUISITES

7.2.1 - ENVIRONMENTAL CONDITIONS

NOTICE

For details on permissible environmental conditions (temperature range and classification) refer to "4.3 - Technical data".

⚠ WARNING

PIETRO FIORENTINI S.p.A. shall not be liable for damage and/or malfunction caused by installation in other than permitted environments.

7.3 - CHECKS BEFORE INSTALLATION

The place of installation must be suitable for safe use of the equipment.


The equipment installation area should have lighting that provides the operator with good visibility during the installation steps.

Before proceeding with installation you must make sure that:

- there are no impediments that may hinder the operator's installation operations
- it follows the procedures of the company or utility.

NOTICE

Refer to the SSM-ICON 250 meter manual for details of meter requirements.

Installation	
Operator qualification	<ul style="list-style-type: none"> • Installer.
PPE required	 <p>⚠ WARNING</p> <p>The PPE listed in this chart relates to the risk associated with the equipment. For the PPE required to protect against risks associated with the workplace, installation or operating conditions, refer to:</p> <ul style="list-style-type: none"> • the regulations in force in the country of installation; • <u>any indications provided by the Safety Manager at the installation facility.</u>
Equipment required	T-20 torx screwdrivers

Tab. 7.28.

7.4 - INSTALLATION-SPECIFIC SAFETY WARNINGS

NOTICE

The equipment comes with its battery packs already inserted and connected, so once installed, it is ready for use.

⚠ WARNING

The installation could also take place in environments at risk of explosion and this implies the adoption of all the necessary prevention and protection measures.

For these measures, please refer to the regulations in force at the place of installation.

⚠ WARNING

Near the equipment it is forbidden to:

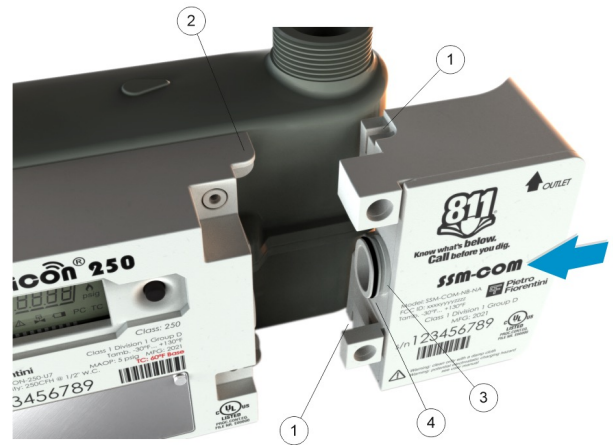
- use open flames (for example, for welding operations);
 - smoke.
-

⚠ WARNING

When installing the equipment, implement measures to protect against electrostatic discharges.

7.5 - INSTALLATION PROCEDURES

For **preliminary installation steps**, proceed as described in Tab. 7.29

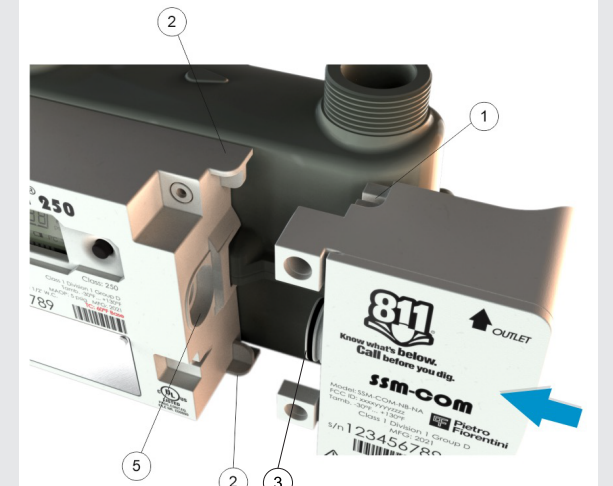
Step	Operation	
1	<p>Check the correct positioning of the O-ring (4) on the communication channel (3) in the outermost seat.</p> <p>NOTICE SSM-COM comes with the O-ring (4) already in place.</p>	




Tab. 7.29.

CAUTION

PIETRO FIORENTINI S.p.A. cannot be held responsible in case of malfunction to the optical communication between the SSM-ICON 250 meter and the communication device SSM-COM in case the seal between the two modules is not fitted.

For the **installation of the communication device SSM-COM**, proceed as described in Tab. 7.30:

Step	Operation	
1	Place the device SSM-COM on the front of the SSM-ICON 250 meter.	
2	<p>Place the communication module SSM-COM by pushing it from right to left.</p> <p>NOTICE Center the communication channels (3, 5) and the two mechanical guides (1, 2).</p>	

Step	Operation	
3	Check that the holes of the fixing screws of SSM-COM (6) are aligned with those of the SSM-ICON 250 meter.	
4	Insert and screw in the two M4X12 self-tapping screws (8). <div style="background-color: #0056b3; color: white; padding: 5px; margin-top: 10px; display: inline-block;">NOTICE</div> <ul style="list-style-type: none"> Tightening torque: 1.1 lbs/ft Use T20 torx screwdriver 	
5	Insert the screw cover seals (7) into the appropriate slot taking care they are fully inserted into the matching hole.	
6	Activate the pairing procedure between communication module SSM-COM and SSM-ICON 250 gas meter through the field terminal.	

Tab. 7.30.


7.6 - EQUIPMENT ADJUSTMENTS

NOTICE

The equipment is adjusted as requested by the Customer directly at the factory PIETRO FIORENTINI S.p.A.
No further adjustments need to be made.

8 - CONFIGURATION

8.1 - SECURITY REQUIREMENTS FOR CONFIGURATION

Configuration	
Operator qualification	<ul style="list-style-type: none"> Specialized technician. Installer.
PPE required	<div style="display: flex; align-items: center;">  </div> <p style="background-color: #ff8c00; color: white; padding: 2px; display: inline-block;">WARNING</p> <p>The PPE listed in this chart relates to the risk associated with the equipment. For the PPE required to protect against risks associated with the workplace, installation or operating conditions, refer to:</p> <ul style="list-style-type: none"> the regulations in force in the country of installation; <u>any indications provided by the Safety Manager at the installation facility.</u>

Tab. 8.31.

8.2 - EQUIPMENT CONFIGURATION

NOTICE

Configuration of the equipment must be performed by authorized and licensed personnel.

NOTICE

SSM-COM is normally installed to the SSM-ICON 250 gas meter, which must perform field configuration.

8.3 - CONNECTING WITH OTHER DEVICES

SSM-COM is planned to connect with SSM-ICON 250 meter.

9 - MAINTENANCE AND FUNCTIONAL TESTING

9.1 - GENERAL WARNINGS

⚠ DANGER

- Maintenance operations must be performed by personnel trained in workplace safety, qualified and authorized for the activities inherent in the equipment.
- Repair or maintenance work not provided for in this manual may be carried out only with prior approval from PIETRO FIORENTINI S.p.A.. No liability related to damage to persons or property can be attributed to PIETRO FIORENTINI S.p.A. for interventions other than those described or performed in a manner other than those indicated.

⚠ DANGER

Extraordinary maintenance:

- requires a thorough and specialized knowledge of the equipment, the operations required, the risks involved, and the proper procedures for operating it safely;
- is reserved for qualified, trained and licensed technicians.

⚠ WARNING

When in doubt, it is forbidden to operate.

Contact PIETRO FIORENTINI S.p.A. for necessary explanations.

NOTICE

Before starting maintenance operations on the equipment, it should be ensured that the licensed operator has:

- the necessary equipment;
- the appropriate spare parts.

In case of any ascertained abnormalities of the equipment, requiring its removal and replacement from the field, the following should be done Tab. 9.32:

Step	Operation
1	Check for the presence of explosive atmosphere
2	Proceed to replace the equipment.

Tab. 9.32.

Equipment maintenance operations are operationally divided into three main categories:


Commissioning maintenance operations

Routine maintenance	All those operations that the operator needs to carry out in a preventive manner to ensure proper operation of the equipment over time. NOTICE The equipment requires no routine maintenance operations.
Extraordinary maintenance	All those operations that the operator has to perform when the equipment needs it.

Tab. 9.33.

9.2 - EXTRAORDINARY MAINTENANCE

9.2.1 - REPLACING THE COMMUNICATION MODULE

Communication battery replacement	
Operator qualification	<ul style="list-style-type: none"> Specialized technician. Maintenance technician.
PPE required	 <p>⚠ WARNING</p> <p>The PPE listed in this chart relates to the risk associated with the equipment. For the PPE required to protect against risks associated with the workplace, installation or operating conditions, refer to:</p> <ul style="list-style-type: none"> the regulations in force in the country of installation; any indications provided by the Safety Manager at the installation facility.
Equipment required	<ul style="list-style-type: none"> Useful tool for removing the screw cover seal; Torx T20 screwdriver; 2 screw cover seals provided by Pietro Fiorentini (see par. 11.3); 2 self-tapping screws M4x12 (see par. 11.3).

Tab. 9.34.

The equipment is designed to ensure field replacement of the remote communication apparatus in the event of any depletion of battery power.

⚠ DANGER

Batteries, especially end-of-life (discharged) batteries, are dangerous and sensitive to shock, vibration and exposure to open flames. Failure to comply with this document can lead to the risk of explosion, fire and harmful emissions that can have serious health consequences.

⚠ CAUTION

All operations should be carried out away from heat sources.

⚠ CAUTION

Fire extinguishers to be used in the event of a fire shall be Class D since they are effective in extinguishing the start of fires in the presence of Lithium.

NOTICE

Replacement of the communication module SSM-COM should be handled so as not to generate false alarms. Use the software procedure to unpair the SSM-COM communication module from the SSM-iCON 250 gas meter and reset the estimated life meters of the communication battery pack.

To **replace the SSM-COM communication module**, proceed as described in Tab. 9.35:

Step	Operation
1	Using the suitable tool, remove 2 screw cover seals (A). NOTICE Use the tool defined in Tab. 9.34.
2	Unscrew and remove the fixing screws (B) from their seats. NOTICE Use the Torx T20 screwdriver.
3	Pull out the communication module (C).
4	Enter a new communication module.
5	Check that the transparent optical communication windows are completely clean. If necessary, wipe with a damp cloth and check that there is no residue. NOTICE Take care that the O-ring (D) on the communication module is properly installed. PIETRO FIORENTINI S.p.A. cannot be held responsible in case of malfunction to the optical communication between the meter SSM-COM and the SSM-COM communication device if the seal between the two modules is not fitted.
6	Insert the communication module (C) into its seat, making sure it is fully inserted.
7	Insert and fasten the fixing screws (B). NOTICE <ul style="list-style-type: none"> • Tightening torque: 1.1 lbs-ft • Use the Torx T20 screwdriver.
8	Insert the new screw cover seals (A) into the matching hole.
9	Enable wireless local port communication (see par. 8.2.1) and ensure successful connection between meter and field terminal
10	Start the pairing procedure for the new remote communication module.

Tab. 9.35.

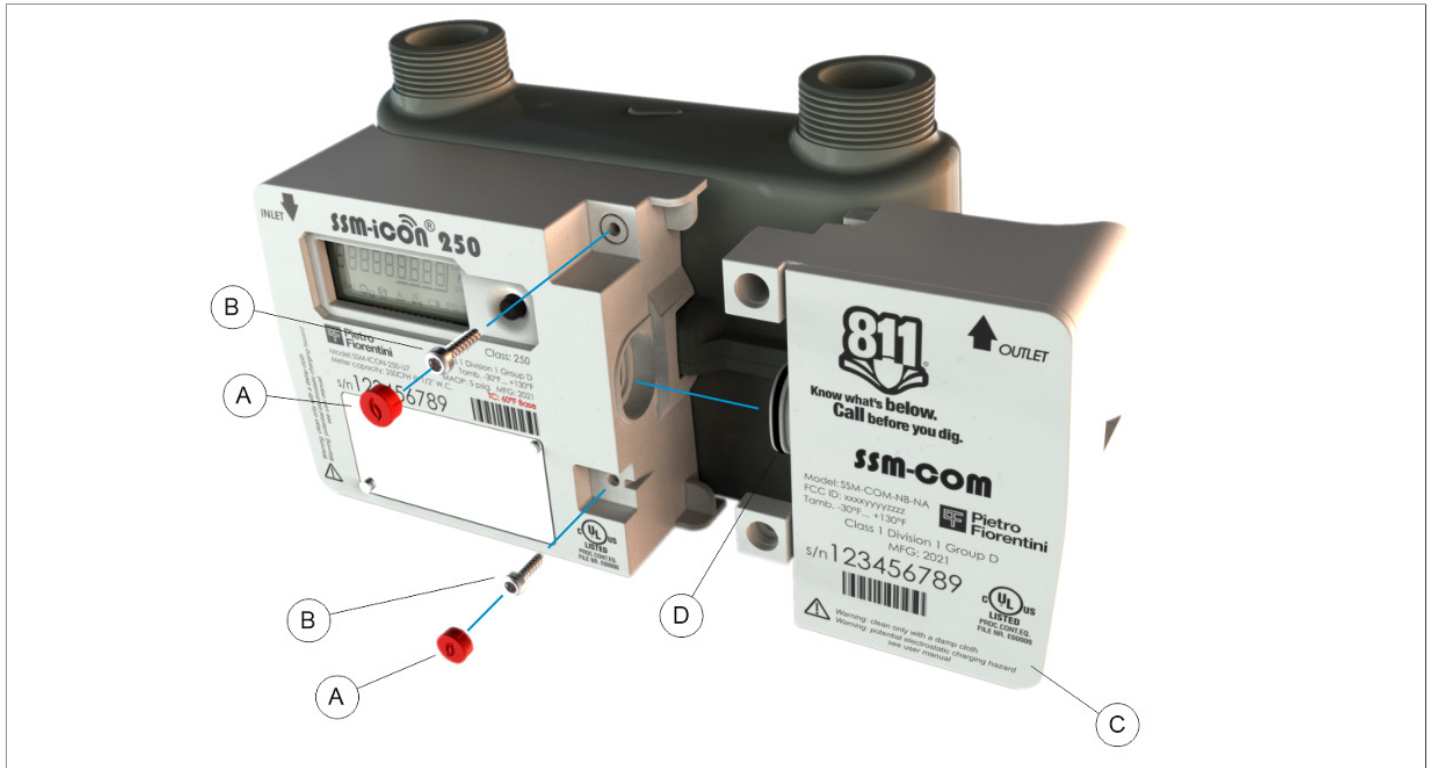


Fig. 9.4. Replacement of the SSM-COM communication module


10 - UNINSTALLATION AND DISPOSAL

10.1 - GENERAL SAFETY WARNINGS

⚠ DANGER

Ensure that there are no effective ignition sources in the work area set up for equipment de-installation and/or disposal.

10.2 - QUALIFICATION OF THE OPERATORS IN CHARGE

Uninstalling	
Operator qualification	<ul style="list-style-type: none"> Installer.
PPE required	 <p>⚠ WARNING</p> <p>The PPE listed in this chart relates to the risk associated with the equipment. For the PPE required to protect against risks associated with the workplace, installation or operating conditions, refer to:</p> <ul style="list-style-type: none"> the regulations in force in the country of installation; any indications provided by the Safety Manager at the installation facility.
Equipment required	Wrenches for securing equipment inlet and outlet fittings/connections.

Tab. 10.36.

10.3 - UNINSTALLING

For proper uninstallation of the equipment, proceed as shown in Tab. 10.37:

Step	Operation
1	Ensure there is no explosive atmosphere.
2	Remove the equipment.

Tab. 10.37.

10.4 - DISPOSAL INFORMATION

NOTICE

- Proper disposal avoids harm to humans and the environment and promotes the reuse of valuable raw materials.
- Please remember to comply with the regulations in force in the country where the equipment is installed.
- Illegal or improper disposal will result in the application of the penalties provided for in the regulations in force in the country of installation.



When removing the apparatus from the field, follow current state regulations regarding waste disposal.

The equipment is made of materials that can be recycled by specialized companies.
For proper disposal of the equipment, proceed as shown in Tab. 10.38:

Step	Operation
1	Prepare a large, clutter-free work area so that equipment dismantling operations can be carried out safely.
2	Separate the various components by material type in a way that facilitates recycling through separate collection.
3	Entrust the materials obtained in Step 2 to a specialized company.

Tab. 10.38.

The equipment in all possible configurations consists of the materials described in Tab. 10.39

Material	Disposal/recycling directions
Plastic	It must be disassembled and disposed of separately.
Steel	Dismantle and collect separately. It must be recycled through the appropriate collection centers.
Stainless steel	Dismantle and collect separately. It must be recycled through the appropriate collection centers.
Aluminum	Dismantle and collect separately. It must be recycled through the appropriate collection centers.
Electronic components	Dismantle and collect separately. It must be recycled through the appropriate collection centers.
Lithium batteries	See paragraph "10.4.1 - Battery disposal"

Tab. 10.39.

NOTICE

The materials indicated above refer to the standard models. Different materials may be provided for specific needs.

10.4.1 - BATTERY DISPOSAL

Proceed with disposal in accordance with the rules:

- of transport and packaging provided in the chapter;
- of the regulations in force in the country where the equipment is installed.

NOTICE

Take measures to prevent any leakage of contents from batteries under normal transport conditions.

⚠ WARNING

- The lithium battery may cause a fire or chemical burn if it is not disposed of properly.
 - Do not recharge, disassemble, heat above 212 °F (100 °C), crush, expose to water, or incinerate the lithium battery. Fire, explosion, and severe burn hazard.
 - The battery used in this device may present a risk of fire or chemical burn if mistreated.
 - Keep the lithium battery away from children.
-

SAFETY SPECIFICATION FOR CANADA (FRENCH)

⚠ WARNING

- La pile au lithium peut provoquer un incendie ou une brûlure chimique si elle n'est pas éliminée correctement.
 - Ne pas recharger, ne pas démonter, ne pas chauffer à plus de 212 °Fahrenheit (100 °C) écraser, exposer à l'eau ou incinérer la batterie au lithium. Incendie, explosion, et risque de brûlure grave.
 - La batterie utilisée dans cet appareil peut présenter un risque d'incendie ou de brûlure chimique si mal-traité.
 - Garder la pile au lithium loin des enfants.
-

11 - RECOMMENDED SPARE PARTS

11.1 - GENERAL WARNINGS

NOTICE

By using non-recommended spare parts PIETRO FIORENTINI S.p.A. the stated performance cannot be guaranteed.

It is recommended to use the original PIETRO FIORENTINI S.p.A. spare parts
PIETRO FIORENTINI S.p.A. is not responsible for damage caused by the use of non-original spare parts or components.

11.2 - HOW TO REQUEST SPARE PARTS

NOTICE

For specific information, consult the PIETRO FIORENTINI S.p.A. sales network.

11.3 - SPARE PARTS LIST

NOTICE

Spare parts are unambiguously identified by:

- the location shown on the equipment assembly drawing (Fig. 11.5);
- an identification code that associates the position with the component (Tab. 11.40).

Reference the order codes for spare parts:

Pos.	Code	Component
A	SG120076614	Screw cover seal
B	SG320016605	M4x12 self-tapping screw
C	SG160006600	SSM-COM communication module
D	SG320106603	O-ring

Tab. 11.40.

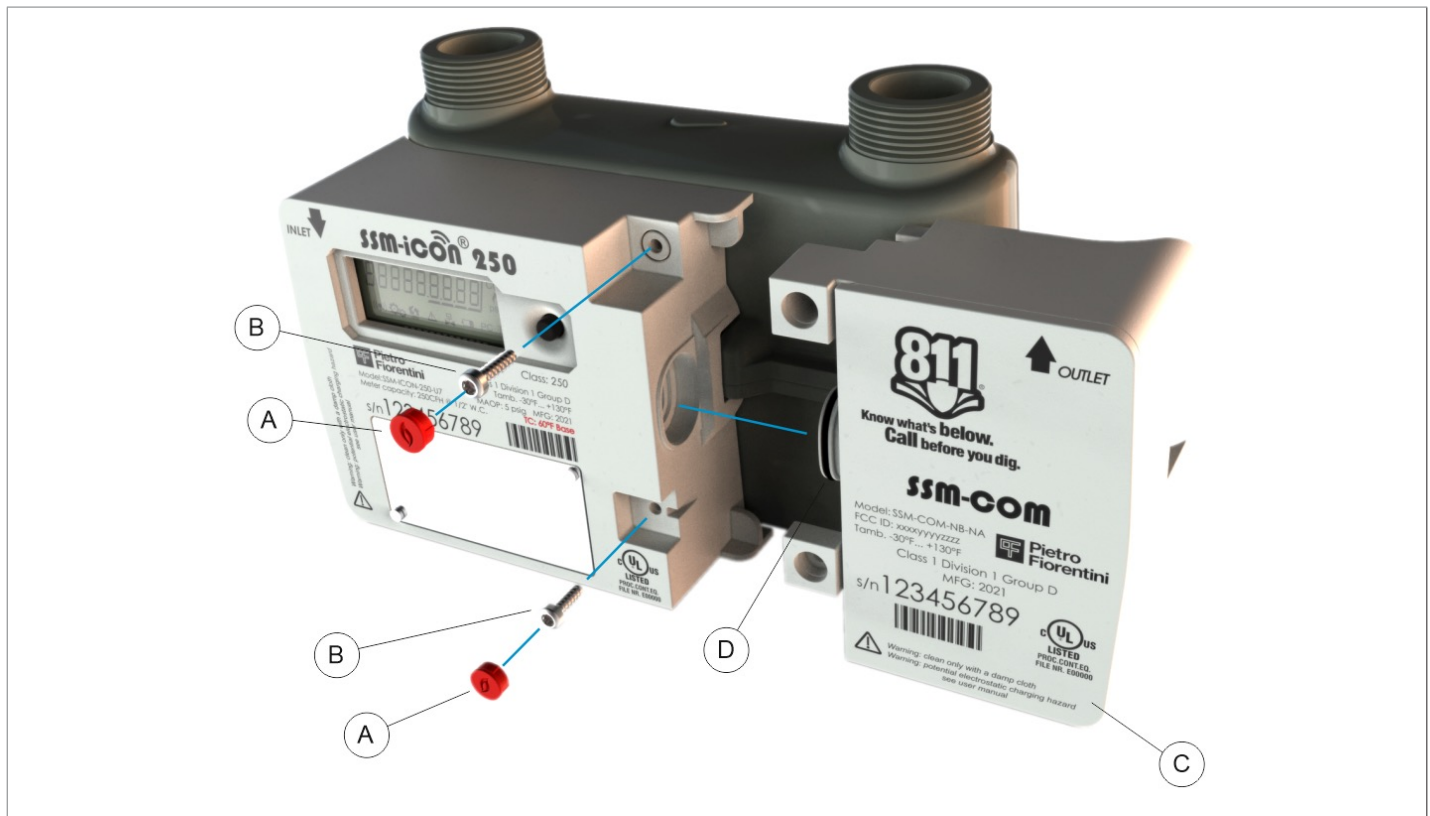


Fig. 11.5. Spare parts

TM0139USA

