

SSM-AQUO

NB-IoT

Quick use and installation quide



SSM-AQUO is an ultrasonic water meter for residential applications.

| 1. GENERAL INFORMATION | | | |
|---|-----------------------|--|--|
| Water temperature | from -0.1°C to + 50°C | | |
| Room temperature | from -25°C to + 55°C | | |
| Environmental class | M1/E1 | | |
| Maximum working pressure | 16 bar | | |
| Protection rating | IP68 | | |
| Accuracy class | 2 | | |
| Battery life | up to 13 years* | | |
| Frequency band | B3, B20 | | |
| * depending on radio transmission settings and environmental conditions | | | |

Tab. 1.1. Technical data

2. ENVIRONMENTAL CLASSIFICATION

- Class B, O according to ISO 4064:2017-A.2 Appendix A point A.2
- Class M1 according to European Directive 2014/32/EU
- Class E1 according to ISO 4064:2017 and European Directive 2014/32/EU

3. PACKAGE CONTENTS

- Meter
- Raccords kit (if ordered) and gaskets

4. SAFETY INFORMATION

- Consult this document before operating.
- Installation must only be carried out by qualified and authorised personnel.

5. TRANSPORT AND STORAGE

- Protect against vibrations and falls during transport;
- Storage temperature between -25°C and +55°C:
- Once the meter has been removed, do not handle it by the lid;
- Avoid impacts, bumps and drops when installing the meter.

6. INSTALLATION PRE-REQUISITES

Check the correct alignment of upstream and downstream pipes.



Fig. 1.1. correct alignment



Check the distance between couplings to avoid mechanical stress. U+D < 5 mm



Fig. 1.3. distance between the meter and the joints

SSM-AQUO is class U0D0 (does not require a straight section of pipe before and after the meter).

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7. COMPONENTS REQUIRED FOR **INSTALLATION**

- Gaskets
- Compression fittings



Always use new seals.



Gaskets and fittings are not standard equipment (see par. 3. PACKAGE CONTENTS)

8. INSTALLATION GUIDE

The SSM-AQUO meter can be installed in any position.

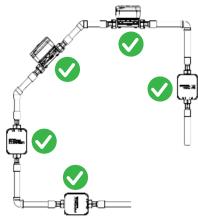


Fig. 1.4. possible installation positions

Remove any packaging or protection from the meter

Install new gaskets in the pipe connections

Position the meter respecting the direction of flow

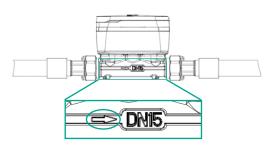


Fig. 1.5. flow limitation

Fasten the nuts according to the tightening torques indicated in the table

Open the upstream valve to allow water to flow into the meter

Open the downstream valve to allow air to escape from the pipeline

Close the downstream valve

Check that there are no leaks from the fittings

Reopen the downstream valve









9. TIGHTENING TORQUES

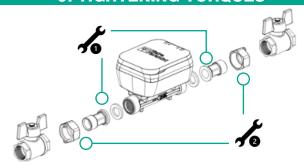


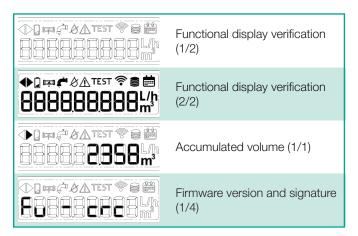
Fig. 1.6. meter joints

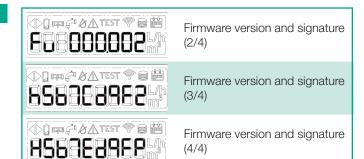
| DN | 16 | 10 | ئ |
|----|----|----|----------|
| 15 | 17 | 29 | 30 Nm |
| 20 | 23 | 36 | 35 Nm |
| 25 | 30 | 46 | 35 Nm |
| 32 | 36 | 53 | 40 Nm |
| 40 | 44 | 66 | 45 Nm |

Tab. 1.2. tightening torques

10. METER DISPLAY

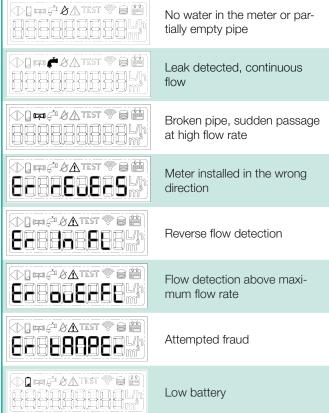
The display cyclically shows information as described below.





Tab. 1.3. display information

11. METER DISPLAY ERRORS



Tab. 1.4. display errors

12. AUTOMATIC METER READING

The meter is pre-configured to allow consumption transmission via radio frequency. Radio transmissions are automatically activated after the 5-litre volume totaliser has been reached or according to the settings agreed upon in the order.

13. DISPOSAL



This product contains a lithium battery and electronic circuitry. Do not dispose of with household waste, follow your municipality's instructions for the disposal of WEEE.



Disposal must only be carried out by qualified and authorised personnel, following the prescriptions of the 2012/19/UE for electric and electronic (RAEE) components disposal.

14. EU DECLARATION OF CONFORMITY

Pietro Fiorentini S.p.A. declares under its sole responsibility that the SSM-AQUO series meters to which this declaration refers are IN ACCORDANCE with the European directives listed below:

Directive 2014/32/EU of the European Parliament and of the council of 26 February 2014 on the harmonisation of the laws of the Member States concerning the making available on the market of measurement instrument (recast)

Directive 2014/53/EU of the European Parliament and of the council of 16 April 2014 on the harmonisation of the laws of the Member States concerning the making available on the market of radio equipment and that supersede directive 1999/5/EC

Type B certificate: IT-028-21-MI001-2213, firstly issued on 9 March 2022 by Pa.L.Mer. Soc. Cons.a.r.l., Italy, (Notified Body Number 2213)

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