



tions.

Water temperature

Room temperature

Environmental class

Maximum radio power

Protection rating

Maximum working pressure

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

5. TRANSPORT AND STORAGE

4. SAFETY INFORMATION

- Protect against vibrations and falls during transport;
- Storage temperature between -25° C and $+55^{\circ}$ C: ۲
- 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.



$\mathbf{\Omega}$ Fig. 1.2. misalignment

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 torgues 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



Meter

39 0444 968 511







Raccords kit (if ordered)

- Class E1 according to ISO 4064:2017 and European Directive 2014/32/EU

3. PACKAGE CONTENTS

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

2. ENVIRONMENTAL CLASSIFICATION

2 Accuracy class Batterv life up to 13 years*

* depending on radio transmission settings and environmental conditions

SSM-AQUO is an ultrasonic water meter for residential applica-

1. GENERAL INFORMATION

Tab. 1.1. Technical data

from -0.1° C to $+50^{\circ}$ C

from $-25^{\circ}C$ to $+55^{\circ}C$

M1/E1

16 bar

25 mW E.R.P.

IP68

9. TIGHTENING TORQUES



Fig. 1.6. meter joints

DN	10	1	5
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

1.2. tightening torques

10. METER DISPLAY

The display cyclically shows information as described below.

()) p=(² δ∆π57 (*)) (*)	Functional display verification (1/2)
◆2 ¤≠ ¢ &∆ test ? ≥ =	Functional display verification (2/2)
	Accumulated volume (1/1)
() [= (² δ Δ π τ ²) 2 = (³ Δ Δ π τ τ ³) 2 = (³ Δ Δ π τ ³) 2 = (³ Δ Δ π τ ³) 2 = (³ Δ Δ π τ ³) 2 = (³ Δ μ σ Δ π τ ³) 2 = (³ Δ μ σ σ σ σ σ σ σ σ σ σ σ σ σ σ σ σ σ σ	Firmware version and signature (1/4)



Firmware version and signature (2/4)



Firmware version and signature (4/4)

Tab. 1.3. display information

11. METER DISPLAY ERRORS

1) 🛛 🖛 🖓 🕭 📐 TEST 💎 🔒 🛗 No water in the meter or par-tially empty pipe >D 📭 🗗 & A TEST 💎 🗟 🛗 Leak detected, continuous flow () () 📭 🖓 & A TEST 🖗 🗟 🛗 Broken pipe, sudden passage at high flow rate <▷() 両 ८ ८ 🖉 🗟 🛗 Meter installed in the wrong 6-8-636-6 direction ⟨⟩û,⇔,∂`,∂**∧**test 🖗 🗎 Reverse flow detection ⟨D)] 📭 🖓 & 🕂 TEST 🖗 🖯 🛗 Flow detection above maxi-mum flow rate () 🕽 📭 🖓 🌢 🛦 TEST 🛜 🛢 🛗 Attempted fraud

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

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 pressure equipment (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, issued on 9 March 2022 by Pa.L.Mer. Soc. Cons.a.r.l., Italy, (Notified Body Number 2213)

Tab. 1.4. display errors



Low battery

A 🖙 🖓 & A TEST 💎 🗟 🛗



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