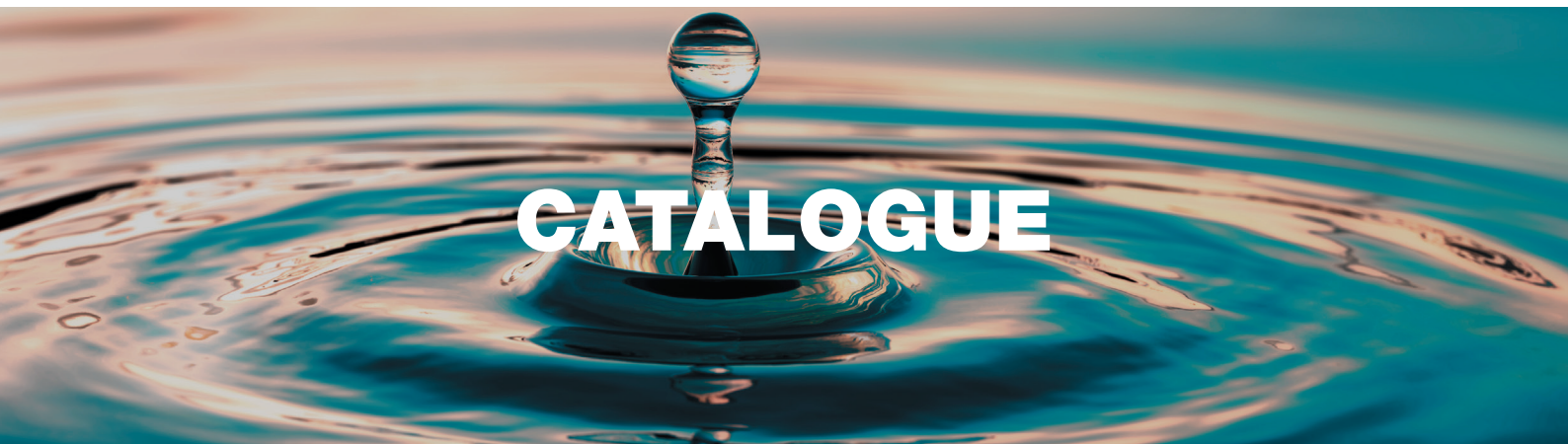


# AQUO

Ultrasonic  
Water meters



**CATALOGUE**

**Pietro Fiorentini S.p.A.**

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watermeters\_catalog\_ENG\_revB

For technical information not contained in this document, please contact Pietro Fiorentini sales offices.

# SSM15

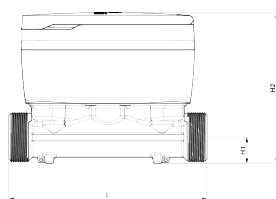
- R=400 (Brass), R=800 (composite)
- IP 68 protection degree
- Wireless M-Bus (walk-by, drive-by reading modes), LORAWAN (LPWAN fixed network) or NB-IoT integrated radio transmission
- Alarm detection: leakage, burst (tube brokage), empty pipe, reversed flow, battery remaining capacity under warning threshold
- Suitable for potable water
- Battery lifetime over 13 years
- Operating temperature -10 + 55°C
- LCD 9 digits + icons
- Long-life primary lithium battery
- Integrated water temperature measurement



## Displayed values

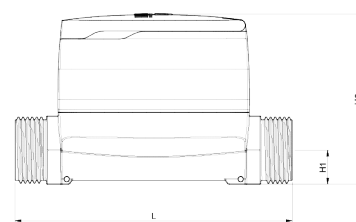
|                     |                    |                  |                        |                        |
|---------------------|--------------------|------------------|------------------------|------------------------|
| accumulated volume  | firmware version   | flow rate errors | high resolution volume | due date x2            |
| due date volume x2  | reverse volume     | flow direction   | display test           | low battery indication |
| radio signal ON/OFF | leakage indication | empty pipe       | freezing alert         | max temperature record |

| Model name                  |      | SSM15 |           |       |
|-----------------------------|------|-------|-----------|-------|
| Nominal Diameter            | mm   | DN15  |           |       |
| Nominal Pressure            | bar  | 16    |           |       |
| Material                    |      | Brass | Composite |       |
| Permanent Flow Rate [Q3]    | m³/h | 2,5   | 1,6       | 2,5   |
| Ratio [Q3\Q1]               | R    | 400   | 400       | 800   |
| Max Flow rate [Q4]          | m³/h | 3,125 | 2         | 3,125 |
| Transitional flow rate [Q2] | L/h  | 10    | 6,4       | 5     |
| Minimum flow rate [Q1]      | L/h  | 6,25  | 4         | 3,125 |
| Starting Flow rate          | L/h  | 1     | 1         | 1     |
| Temperature class           | °C   | T50   | T50       | T50   |
| Pressure drop class         | bar  | 0,63  | 0,4       | 0,4   |



Brass version

| Dimensions   |    |    | Brass | Composite |
|--------------|----|----|-------|-----------|
| Meter Length | L  | mm | 110   | 110       |
| Axis Height  | H1 | mm | 16    | 16        |
| Total Height | H2 | mm | 86    | 70        |
| Width        | W  | mm | 84    | 84        |



Composite version

# SSM20

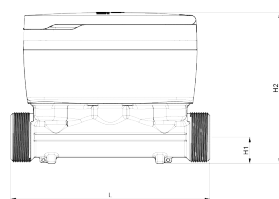
- R=400 (Brass), R=800 (composite)
- IP 68 protection degree
- Wireless M-Bus (walk-by, drive-by reading modes), LORAWAN (LPWAN fixed network) or NB-IoT integrated radio transmission
- Alarm detection: leakage, burst (tube brokage), empty pipe, reversed flow, battery remaining capacity under warning threshold
- Suitable for potable water
- Battery lifetime over 13 years
- Operating temperature -10 + 55°C
- LCD 9 digits + icons
- Long-life primary lithium battery
- Integrated water temperature measurement



## Displayed values

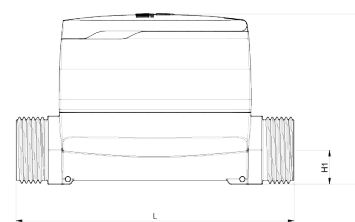
|                     |                    |                  |                        |                        |
|---------------------|--------------------|------------------|------------------------|------------------------|
| accumulated volume  | firmware version   | flow rate errors | high resolution volume | due date x2            |
| due date volume x2  | reverse volume     | flow direction   | display test           | low battery indication |
| radio signal ON/OFF | leakage indication | empty pipe       | freezing alert         | max temperature record |

| Model name                  |      | SSM20 |           |     |
|-----------------------------|------|-------|-----------|-----|
| Nominal Diameter            | mm   | DN20  |           |     |
| Nominal Pressure            | bar  | 16    |           |     |
| Material                    |      | Brass | Composite |     |
| Permanent Flow Rate [Q3]    | m³/h | 4     | 2,5       | 4   |
| Ratio [Q3\Q1]               | R    | 400   | 400       | 800 |
| Max Flow rate [Q4]          | m³/h | 5     | 3,125     | 5   |
| Transitional flow rate [Q2] | L/h  | 16    | 10        | 8   |
| Minimum flow rate [Q1]      | L/h  | 10    | 6,25      | 5   |
| Starting Flow rate          | L/h  | 1     | 1         | 1   |
| Temperature class           | °C   | T50   | T50       | T50 |
| Pressure drop class         | bar  | 0,63  | 0,4       | 0,4 |



Brass version

| Dimensions   |    |    | Brass | Composite |
|--------------|----|----|-------|-----------|
| Meter Length | L  | mm | 130   | 130       |
| Axis Height  | H1 | mm | 19    | 19        |
| Total Height | H2 | mm | 91    | 76        |
| Width        | W  | mm | 84    | 84        |



Composite version

# SSM25

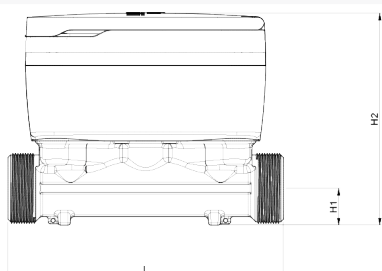
- R=400
- IP 68 protection degree
- Wireless M-Bus (walk-by, drive-by reading modes), LORAWAN (LPWAN fixed network) or NB-IoT integrated radio transmission
- Alarm detection: leakage, burst (tube brokage), empty pipe, reversed flow, battery remaining capacity under warning threshold
- Suitable for potable water
- Battery lifetime over 13 years
- Operating temperature -10 + 55°C
- LCD 9 digits + icons
- Long-life primary lithium battery
- Integrated water temperature measurement



## Displayed values

|                     |                    |                  |                        |                        |
|---------------------|--------------------|------------------|------------------------|------------------------|
| accumulated volume  | firmware version   | flow rate errors | high resolution volume | due date x2            |
| due date volume x2  | reverse volume     | flow direction   | display test           | low battery indication |
| radio signal ON/OFF | leakage indication | empty pipe       | freezing alert         | max temperature record |

| Model name                  |      | SSM25 |
|-----------------------------|------|-------|
| Nominal Diameter            | mm   | DN25  |
| Nominal Pressure            | bar  | 16    |
| Material                    |      | Brass |
| Permanent Flow Rate [Q3]    | m³/h | 6,3   |
| Ratio [Q3\Q1]               | R    | 400   |
| Max Flow rate [Q4]          | m³/h | 7,875 |
| Transitional flow rate [Q2] | L/h  | 25,2  |
| Minimum flow rate [Q1]      | L/h  | 15,75 |
| Starting Flow rate          | L/h  | 2     |
| Temperature class           | °C   | T50   |
| Pressure drop class         | bar  | 0,4   |



### Dimensions

|              |    |    |     |
|--------------|----|----|-----|
| Meter Length | L  | mm | 260 |
| Axis Height  | H1 | mm | 24  |
| Total Height | H2 | mm | 99  |
| Width        | W  | mm | 84  |

# SSM32

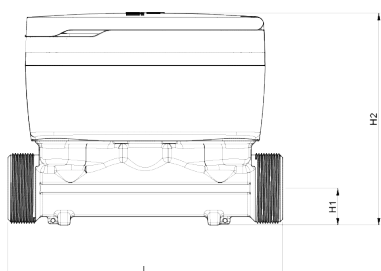
- R=400
- IP 68 protection degree
- Wireless M-Bus (walk-by, drive-by reading modes), LORAWAN (LPWAN fixed network) or NB-IoT integrated radio transmission
- Alarm detection: leakage, burst (tube brokage), empty pipe, reversed flow, battery remaining capacity under warning threshold
- Suitable for potable water
- Battery lifetime over 13 years
- Operating temperature -10 + 55°C
- LCD 9 digits + icons
- Long-life primary lithium battery
- Integrated water temperature measurement



## Displayed values

|                     |                    |                  |                        |                        |
|---------------------|--------------------|------------------|------------------------|------------------------|
| accumulated volume  | firmware version   | flow rate errors | high resolution volume | due date x2            |
| due date volume x2  | reverse volume     | flow direction   | display test           | low battery indication |
| radio signal ON/OFF | leakage indication | empty pipe       | freezing alert         | max temperature record |

| Model name                  |      | SSM32 |
|-----------------------------|------|-------|
| Nominal Diameter            | mm   | DN32  |
| Nominal Pressure            | bar  | 16    |
| Material                    |      | Brass |
| Permanent Flow Rate [Q3]    | m³/h | 10    |
| Ratio [Q3\Q1]               | R    | 400   |
| Max Flow rate [Q4]          | m³/h | 12,5  |
| Transitional flow rate [Q2] | L/h  | 40    |
| Minimum flow rate [Q1]      | L/h  | 25    |
| Starting Flow rate          | L/h  | 3     |
| Temperature class           | °C   | T50   |
| Pressure drop class         | bar  | 0,4   |



### Dimensions

|              |    |    |     |
|--------------|----|----|-----|
| Meter Length | L  | mm | 260 |
| Axis Height  | H1 | mm | 27  |
| Total Height | H2 | mm | 104 |
| Width        | W  | mm | 84  |

# SSM40

- R=400
- IP 68 protection degree
- Wireless M-Bus (walk-by, drive-by reading modes), LORAWAN (LPWAN fixed network) or NB-IoT integrated radio transmission
- Alarm detection: leakage, burst (tube brokage), empty pipe, reversed flow, battery remaining capacity under warning threshold
- Suitable for potable water
- Battery lifetime over 13 years
- Operating temperature -10 + 55°C
- LCD 9 digits + icons
- Long-life primary lithium battery
- Integrated water temperature measurement



accumulated volume

firmware version

flow rate errors

high resolution volume

due date x2

due date volume x2

reverse volume

flow direction

display test

low battery indication

radio signal ON/OFF

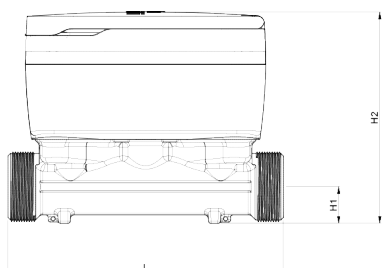
leakage indication

empty pipe

freezing alert

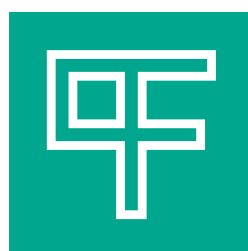
max temperature record

| Model name                  | SSM40 |       |
|-----------------------------|-------|-------|
| Nominal Diameter            | mm    | DN40  |
| Nominal Pressure            | bar   | 16    |
| Material                    |       | Brass |
| Permanent Flow Rate [Q3]    | m³/h  | 16    |
| Ratio [Q3\Q1]               | R     | 400   |
| Max Flow rate [Q4]          | m³/h  | 20    |
| Transitional flow rate [Q2] | L/h   | 64    |
| Minimum flow rate [Q1]      | L/h   | 40    |
| Starting Flow rate          | L/h   | 5     |
| Temperature class           | °C    | T50   |
| Pressure drop class         | bar   | 0,63  |



## Dimensions

|              |    |    |     |
|--------------|----|----|-----|
| Meter Length | L  | mm | 300 |
| Axis Height  | H1 | mm | 33  |
| Total Height | H2 | mm | 113 |
| Width        | W  | mm | 84  |



# Pietro Fiorentini

**CT0067ENG**



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