

Quick Guide Installation Steps

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Important information before installation

1.1

Only installers are approved to perform installation

Further information on kamstrup.com

Further information on products.kamstrup.com

Important information before installation

1.2

Permitted water temperature

0.1 °C...50 °C

Maximum operating pressure

275 PSI

Fixed installation with min. vibration. Electromagnetic environmental class: Residential and commercial

Important information before installation

1.3

2 °C...55 °C

Condensing humidity permitted. (Indoors mounted in utility rooms and outdoors in meter pits). Installation in direct sun and freezing conditions must be avoided

IP68-rated (waterproof-submersible)

Important information before installation

1.4

The meter can be installed indoors, in a pit or under water, but direct sun should be avoided. Increased ambient temperature can adversely affect battery life

Ensure correct piping during installation

2.1

Correct meter placement in installation

Connect the correct pipes parallel to the meter!

Ensure correct pressure during operation

2.2

The Meter is filled with water during operation

≥ 5 PSI

Water pressure too low

< 5 PSI

Avoid entrained air in the water flow

Air

Think forward

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Roswell, GA 30076, USA
T: +1 (404) 835-6716
info-us@kamstrup.com

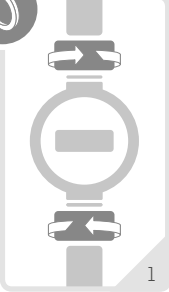
flowIQ® 3101

– RF & Encoded Output
Installation quick guide

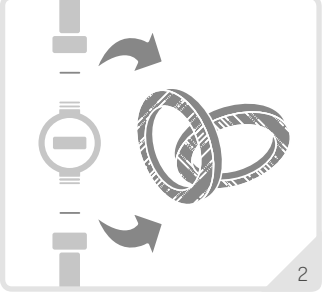


Replace gaskets when installing new meter2.3

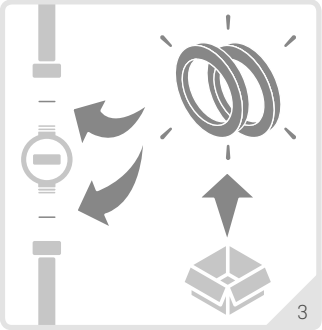
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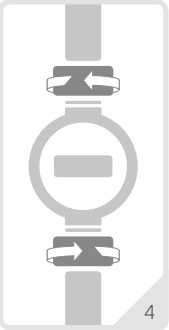
2



3

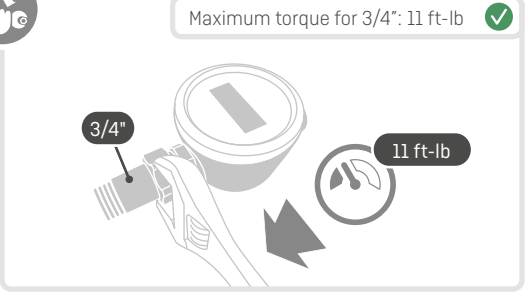


4

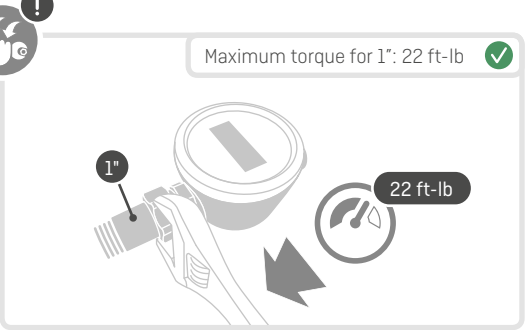


Important! Be aware of maximum torque2.4

Maximum torque for 3/4": 11 ft-lb

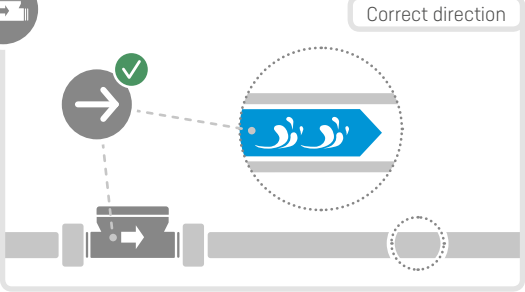


Maximum torque for 1": 22 ft-lb

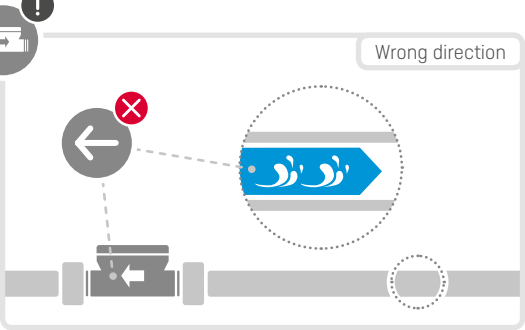


Install meter in the correct direction of flow2.5

Correct direction

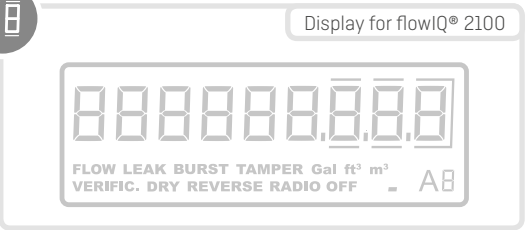


Wrong direction



Info codes and display3

Display for flowIQ® 2100

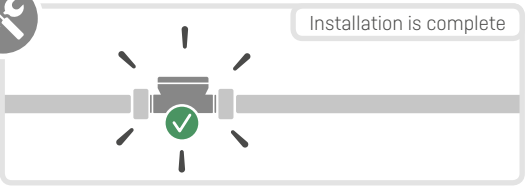


Info code	Meaning
LEAK	Possible leak
BURST	Possible broken pipe
TAMPER	Attempt of fraud
DRY	Meter is missing water
REVERSE	The water flows in reverse direction
RADIO OFF*	The meter is still in transport mode
■ (SQUARE 'DOT')	Flashing square means active meter

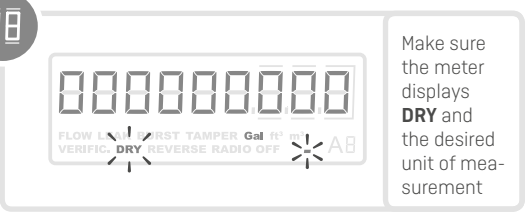
* RF version only

Check the installation4.1

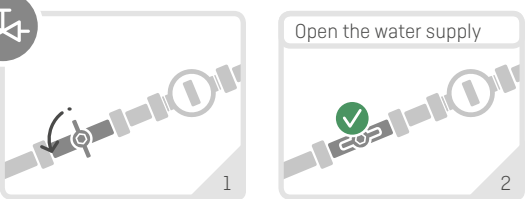
Installation is complete



Make sure the meter displays DRY and the desired unit of measurement

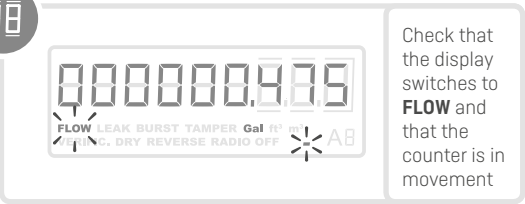


Open the water supply

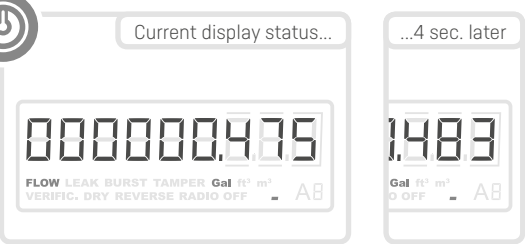


Check the installation4.2

Check that the display switches to FLOW and that the counter is in movement



Current display status...



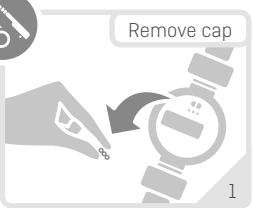
...4 sec. later



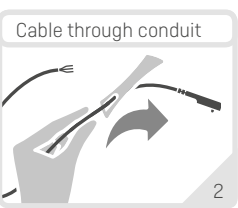
The first 8 hours the meter operates in Installation Mode. The display will update every 4 seconds during Installation Mode, permitting the installer to confirm that the meter is properly operating. Every time the meter becomes dry and subsequently rewetted, Installation Mode will re-initiate

Mount the cable for encoded output on meter *5.1

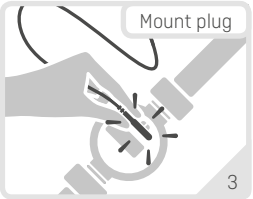
Remove cap



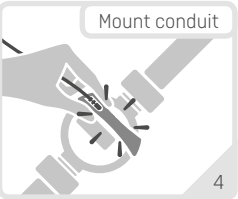
Cable through conduit



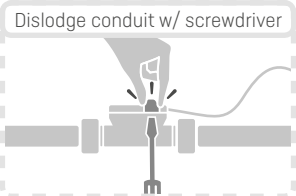
Mount plug



Mount conduit



Dislodge conduit w/ screwdriver

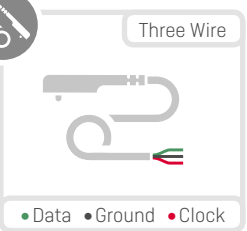


* NOTE:

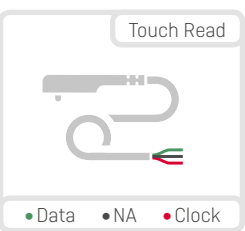
Does not apply to meter type 03U21XXXXX

Connect with other electronic reading systems5.2

Three Wire



Touch Read



The reading unit must comply with the electrical requirements of the specification for the Sensus protocol UI 1203R20, September 2009. The most important issues:

Type: **Open Drain**On voltage: **< 0.4V @ 3.2mA**
Max. input voltage: **15V**OFF condition: **R > 6MΩ**
Max. current sink: **5mA**

	Sensus	Neptune	Itron #1	Itron #2
Data	Green	Red	Red	Brown
Ground	Black	Green	White	Grey
Power	Red	Black	Black	Yellow

ISED Cautions6

This device complies with Industry Canada's licence-exempt RSSs. 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;

2 l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

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