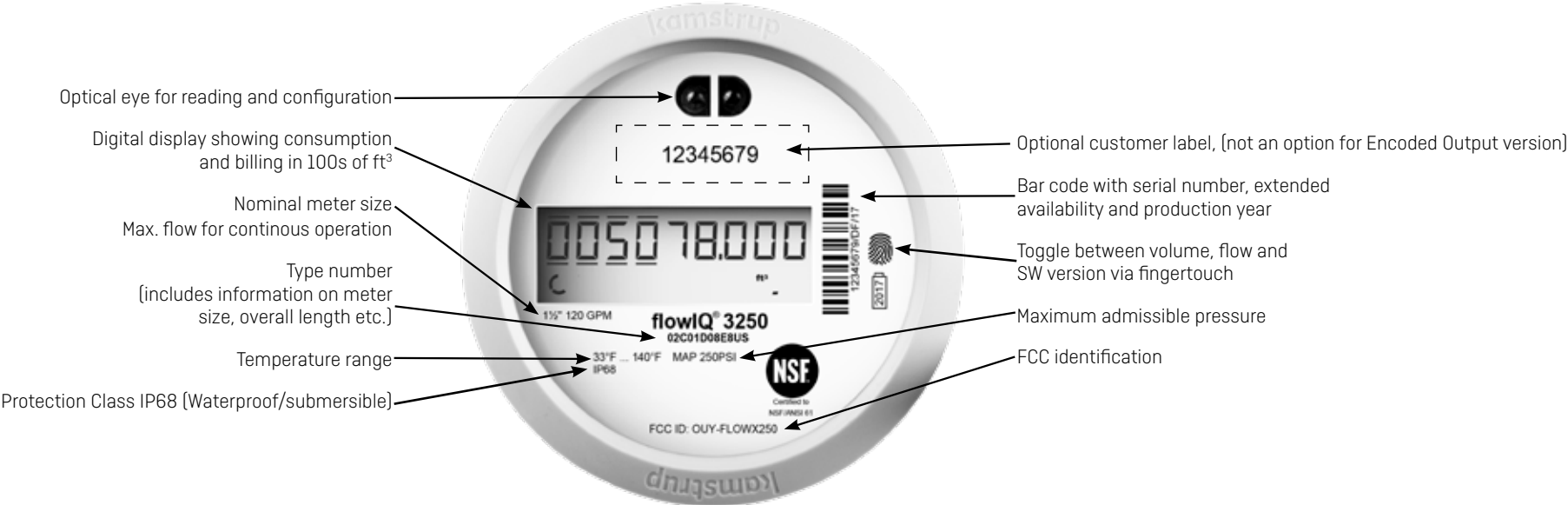
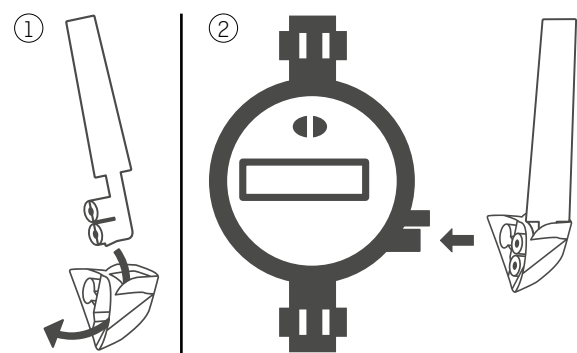




Mounting of antenna



- Step 1: Push the base of the helix antenna through the seal housing.
- Step 2: Align the antenna by using the terminals and steering pin before clicking it into place.

Note: The antenna must only be mounted on the meter with the antenna pointing upwards.
Make sure the terminal is dry and clean before clicking the antenna into place.

FCC Cautions

Caution: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

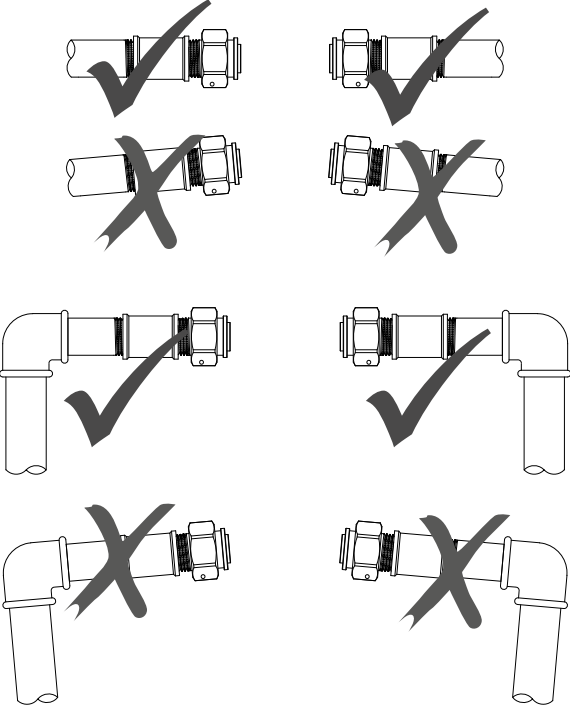
RF Exposure compliance statement: This device may be used with no restrictions, since the source-based time-averaged output power is $\leq 60/f(\text{GHz}) \text{ mW}$.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1 This device may not cause harmful interference, and

2 This device must accept any interference received, including interference that may cause undesired operation.

The adjacent piping must be parallel and match the meter in- and outlet.



kamstrup

flowIQ® 3250

Installation guide



1 General information

Read this guide before installing the water meter.

flowIQ® 3250 is a compact electronic water meter used for water consumption measurement in the tap water supplies of homes, commercial and industrial buildings.

flowIQ® 3250 is hermetically closed, and it is, therefore, impossible to service the meter without breaking the seal. This means that all service, must be carried out by an authorized Kamstrup Service Centre.

Certain changes of configuration, however, are possible via the built-in optical eye without dismounting the meter from the installation. Further details appear in the data sheet.

1.1 Permissible operating conditions/measuring ranges

Fluid temperature:
- 2 part body meter: 33 °F...120 °F
Pressure stage: 250 PSI
Mechanical environment: Fixed installation with minimum vibration.

Electromagnetic environmental class: Residential and commercial
Protection class: IP68-rated (waterproof-submersible)
Climatic environment: 35 °F...140 °F. Condensing humidity. (indoors mounted in utility rooms and outdoors in meter pits). Installation in direct sunlight must be avoided. The meter must be protected from freezing as well.

1.2 Installation requirements

Prior to installation of flowIQ® 3250, the system should be flushed while a fitting piece replaces the meter.

Please check that stop valves are tight and operate as intended and that the pipe system is without corrosion and damages. Damaged components, if any, must be replaced.

Close the main stop valve in front of the meter and let a tap run until the pressure in the system has been equalized. Close the stop valve after the meter before disassembling the pipe system.

Having assembled the pipe system, all sealing surfaces of existing couplings must be cleaned to remove possible remaining pieces of gasket. Remove adhesive wafers from the meter’s inlet and outlet and mount the meter. Always use new gaskets in original quality.

The flow direction is indicated by an arrow on the meter. Install the meter with an orientation that makes it easy for the consumer to read the display.

During installation it must be secured that the meter is mounted without mechanical bias in the connection pipes. Do not attempt to correct oblique piping by means of the meter.

At the same time make sure that the threaded length of the couplings does not prevent proper tightening of the sealing surface and that couplings with similar pressure ratings are used.If meters are mounted in meter pits or outdoors, both the meter pit and the meter must be protected against freezing.

Service

When the meter has been mounted in the system neither welding nor freezing is allowed. Dismount the meter from the system before starting such work.

In order to facilitate replacement of the meter, shut off valves should be mounted on either side of the meter.

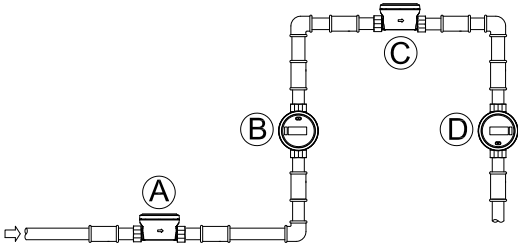
Under normal operating conditions no pipe strainer is required in front of the meter. Check valves must be mounted in accordance with local regulations.



1.3 Installation angle of flowIQ® 3250

flowIQ® 3250 can be mounted at all angles and positions. Kamstrup Headquarters recommend that the display is mounted so that it is easy to read, if possible.

Thus, the meter can be mounted in a plain horizontal installation. It can be mounted vertically on an ascending pipe, it can be mounted at any angle and it can be mounted with the display pointing downwards, e.g under a roof.



- A** Recommended water meter position.
- B** Recommended water meter position.
- C** Used for ‘pit installation’. Air ‘build-up’ may occur.
- D** The meter functions optimally, but the display is ‘upside down’.

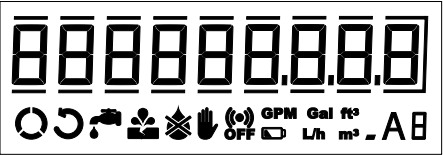
1.4 Straight inlet

flowIQ® 3250 requires neither straight inlet nor straight outlet to meet applicable AWWA standards. A straight inlet section will only be necessary in case of heavy flow disturbances before the meter.

1.5 Operating pressure

In order to avoid cavitation and secure correct measurement under all circumstances the operating pressure in the pipe installation should observe the test conditions of AWWA M6 manual. The static pressure, immediately after the meter (downstream), must always be minimum 20 PSI (1.4 bar).

1.6 Info codes and display



When flowIQ® 3250 leaves Kamstrup Headquarters, it has been tested and verified and the counter has been reset.

The number of gallons or cu ft are displayed by nine large digits. Bars over and under each digit are fully customizable, meaning that they can be used to indicate numbers after the decimal point or indicate if the customer is billed in e.g. tens or hundreds of gallons.

The table below describes the different info codes in the display.

Info code flashes in the display		Meaning
Flow		The three segments will switch on alternately to indicate flow in the meter
Backflow		Indication if there is reverse flow
Leak		The water has not been stagnant in the meter during the past 24 hours. This can be a sign of a leaky faucet or toilet.
Burst		The water flow has exceeded a preprogrammed limit for a minimum of 30 minutes, which is a sign of a burst pipe.
Dry		The meter is not water-filled.
Tamper		Attempt of fraud. The meter is no longer valid for billing purposes.
Radio OFF		The meter is still in transport mode with the built-in radio transmitter turned off. The transmitter turns on automatically when the first 1/4 gallon of water has run through the meter.
Flow unit		Indicates the configured flow unit.
Battery		Indication of the battery state.
Active meter indication		A small square is flashing to indicate that the meter is active.
Meter adjustment	AB	If the meter has been dismounted, tested and the basic flow measurement has been adjusted this info code will appear.