

**Quick guide installation steps**

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**kamstrup**

**MULTICAL® 21 &  
 flowIQ® 2101  
 Installation quick guide**



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**1.1 Important information before installation**

Only **installers are approved** to perform installation

Further information on [products.kamstrup.com](https://products.kamstrup.com)

Further information on [kamstrup.com](https://kamstrup.com)

**1.2 Important information before installation**

Permitted water temperature  
 0.1 °C...50 °C ✓

Maximum operating pressure ✓  
 16 bar ✓

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

**1.3 Important information before installation**

5 °C...55 °C ✓

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

IP68-rated (waterproof-submersible) ✓

**1.4 Important information before installation**

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

**1.5 Important information before installation**

Wet O-ring on non-return valve with water ✓

Mount non-return valve on mounting tool ✓

6699-479/494: Mounting tools

Ensure correct measured insertion with mounting tool ✓

**2.1 Ensure correct piping during installation**

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 ✓

≥ 0.3 bar ✓

Water pressure is too low ✗

< 0.3 bar ✗

Avoid entrained air in water ✗

Air ✗

**Ensure correct pressure during operation** 2.3

Avoid heavy flow disturbance in the water flow

Fully open ✓

Partially open ✗

**Replace gaskets when installing new meter** 2.4

1. Remove the old gasket.
2. Clean the gasket seat.
3. Install the new gasket.
4. Tighten the meter.

**Use gaskets in the correct width** 2.5

Correct width ✓

A = A ✓

Wrong width ✗

A ≠ B ✗

**Important! Be aware of maximum torque** 2.6

Maximum torque for 3/4": 15 Nm ✓

3/4" 15 Nm

Maximum torque for 1": 30 Nm ✓

1" 30 Nm

**Install meter in the correct direction of flow** 2.7

Correct direction ✓

Wrong direction ✗

**Info codes and display** 3

Info code overview in the MULTICAL® 21 display

Icon / info code	Meaning
	REVERSE The water flows in reverse direction
	LEAK Possible leak
	BURST Possible broken pipe
	DRY The meter is not filled with water
	TAMPER Attempt of fraud
	RADIO OFF The meter is still in transport mode

**Check the installation** 4

Installation is complete

Open the water supply

1. Check the installation.
2. Open the water supply.