

Data sheet

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**External Antenna for flowIQ® and MULTICAL® 21 Water Meters**

- More than doubles the reading distance for the flowIQ® and MULTICAL® 21 radios
- Suitable for meter pit or interior/exterior wall mount installations
- Fully submersible
- Nominal cable length of 6½ ft (3 m); optional length of 24½ ft (7½ m)
- No batteries or electronic parts
- Requires no cable connectors, specialty tools or meter reconfiguration



## Application

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The external antenna is an accessory for Kamstrup's water meter products flowIQ® and MULTICAL® 21. The antenna can easily be installed together with the meter or retrofitted. Together with the antenna, the necessary parts for mounting in a pit with a cover thickness of up to 100 mm are included. By using extension kit, the antenna can be mounted in a pit cover with a thickness of up to 250 mm.

For wall mounting, among other things, a cover is used in which the antenna is mounted.

The antenna can be delivered with two different cable lengths of 200 cm and 750 cm, respectively.

The external antenna is delivered as a stand-alone, fully mounted unit, and the cable length is not changeable. It is, however, possible to remove the antenna frame from the clip-on mounting ring attached to the meter in order to lead the cable through e.g. walls, bars, etc. by drilling a hole with a diameter of 14 mm. Dismounting and remounting can be performed without any use of special tools.

## What is in each External Antenna kit?

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- Antenna bracket with thread, clip-on mounting ring, with integrated cable
- Nut with thread and antenna top with thread, for mounting on meter pit cover.
- Plastic cover, for mounting on wall, bars or rafters. Included in the 750 cm antenna variant.



## Technical Data

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### Electrical Specifications

Type	Omni-directional
Frequency range	865 to 928 MHz
Polarization	Vertical

### Mechanical Specifications

Antenna, mounting ring and cover	Polycarbonate (PPA)
Antenna with 6.5 ft (2.0 m) cable	
– Antenna cable	6.5 ft (2.0 m), RG-58/U, black
– Weight	0.9 lbs (475 g) packaged
Antenna with 24.5 ft (7.5 m) cable	
– Antenna cable	24.5 ft (7.5 m), H155, grey
– Weight	1.7 lbs (715 g) packaged

### Environmental Specifications

Temperature	-40 °F to +140 °F [-40 °C to +60 °C]
Relative Humidity	0 % to 100 %
Immersion	Submersible to 9 ft (3 m)




## Electrical Compliance and markings

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CE

R&TTE

## Ordering details

<p><b>6697-143</b></p>	<p>Pit mount external antenna for flowIQ® and MULTICAL® 21 water meters, 6,5 foot cable (2.0 m)</p>	
<p><b>6697-144</b></p>	<p>Wall mount external antenna for flowIQ® water and MULTICAL® 21 water meters, incl. cover for wall mounting, 25.5 foot cable (7,5 m)</p>	
<p><b>6697-145</b></p>	<p>Extender kit (for pit lids up to 4" / 250 mm thick) 5 kits</p>	
<p><b>6697-146</b></p>	<p>Cover and mounting hardware kit for wall mount 5 kits</p>	