

User Guide

READy Converter · Basic



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1 Description

- Flexible converter unit for meter reading
- Rugged design
- Long battery lifetime
- Support of Wireless M-Bus, Communication C mode
- Support of Bluetooth®

Part of READY Suite

READY Converter, Basic is part of the READY Suite and is responsible for the automatic data collection from smart water meters equipped with Wireless M-Bus communication

READY Suite is a unique standardized Wireless M-Bus solution for easy and fast reading of smart water meters.

The reading of the smart water meters takes place using the READY Converter, Basic which receives data and sends this to a smartphone/tablet which is responsible for storing the data. Each device can contain data from up to 15,000 meters.

The direct communication between the smart water meters and READY Converter, Basic is based on a comprised one-way communication protocol focusing on fast, safe and robust data communication and long battery lifetime. This comprised communication protocol is called C mode.

Due to the optimized Wireless M-Bus communication protocol, READY Converter, Basic can receive data from up to 30 smart water meters per second, making it a perfect drive-by solution.

2 What is in the box?

READy Converter, Basic is delivered ready to use in a box containing:

- 1 x READy Converter
- 1 x whip antenna
- 1 x 230 VAC/USB charger
- 1 x USB car charger with 2 USB outputs
- 1 x USB/micro USB cable
- 1 x quick guide

The intuitive quick guide leads you through the installation of the PC software and the smartphone app and shows you how to connect software, app and converter unit with each other.



3 Technical data

Communication interfaces

Meter reading	Wireless M-Bus, C mode
Data transfer to smartphone/tablet	Bluetooth® 2.0

Further interfaces

Charging	Micro USB
Optical interface	3 x LED for battery status
User interface	ON/OFF button

Frequencies

Wireless M-Bus	923 MHz
Bluetooth [class 2, v2.1 EDR]	2.4 – 2.5 GHz
Bluetooth [class 2, v2.1 EDR]	2.4 – 2.5 GHz

4 Mechanical data

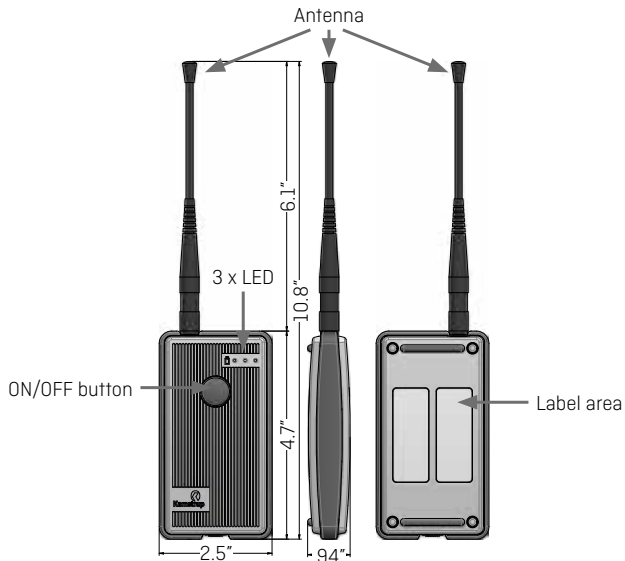
LxWxD (in inches)	4.7" x 2.5" x .94" (without whip antenna) 10.8" x 2.5" x .94" (with whip antenna)
Weight (incl. antenna)	5.6 oz
IP protection class	IP41
Antenna plug	SMA (reversed polarity)
Charging plug	Micro USB

Temperature range

Charging	50 °F - 113 °F
Operation	-14 °F - +113 °F
Storage	32 °F - 140 °F
Humidity	< 85 %, non-condensing

5 Dimensions

READy Converter



6 Power supply

READy Converter

3.6 VDC internal, rechargeable battery

Operation time (fully charged) < 8 hours

Charging time (fully discharged) 9 hours

Charging consumption 500 mW

To function optimally, READy Converter, Basic must be fully charged at least once every half year.

230 VAC charger

Output 5 VDC/1 A

USB car charger

Output 2 x 5 VDC/1 A

Supported meter types

flowIQ® 2100

flowIQ® 3101

7 Markings/standards

AS/NZS 4268:2012

RoHS

Bluetooth® certification, QDID B02146, EPL registration

8 Safety information/disposal

Do not try to disassemble READy Converter.

Do not expose READy Converter to open fire.

Please return READy Converter to Kamstrup A/S if the above specifications cannot be fulfilled.

9 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.

This device complies with Part 15 of FCC rules.

Operation is subject to the following 2 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.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communication. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and the receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected
- Consult the dealer or an experienced radio/TV technician for help.

This equipment has been approved for portable operation, and unless otherwise advised in separate supplemental instructions for individual wireless transmitter(s), requires minimum 0.6" spacing be provided between antenna(s) and all person's body (excluding extremities of hands, wrist and feet) during wireless modes of operation.

10 Order information

READy Converter Solution (complete)

READyConverter I

11 Accessories

Magnetic roof antenna with 118" antenna cable, complete

6696 010

