kamstrup

Data Sheet

READy Converter, Advanced

- All-in-one box solution
- Flexible converter suitcase for meter reading
- Rugged design
- Long battery lifetime
- Support of Wireless M-Bus Communication, C mode

Contents

Part of READy Suite

READy Converter, Advanced 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 Converters which receives data and sends this to a smartphone/tablet which is responsible for storing the data. Each READy device can contain data from up to 15,000 meters.

The direct communication between the smart water meters and READy Converter 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, the READy Converter advanced can receive data from up to 30 smart water meters per second, making it a perfect drive-by solution.

What is in the suitcase?

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

- 2 x READy Converter
- 2 x whip antenna
- 2 x mobile holders
- 2 x magnetic roof antenna w/ 118" 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.

Technical data

READy Converter

Communication interfaces

Meter reading	Wireless M-Bus, C mode
Data transfer to smartphone/tablet	Smartphone/tablet wireless interface

Further interfaces

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

Frequencies

Wireless M-Bus	912.5 / 915 / 918.5 MHz
Wireless reader interface	2.4 – 2.5 GHz

Mechanical data

READy Converter

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

Suitcase

LxWxD	14.96" x 10.43" x 6.10"
Weight	141 oz
IP protection class	IP41

Temperature range

Charging	50 °F – 113 °F
Operation	14 °F - +131 °F
Storage	32 °F – 140 °F
Humidity	< 85 %, non-condensing

Power supply

READy Converter

3.6 VDC internal, rechargeable battery

Operation time (fully charged)	Up to 8 hours
Charging time (fully discharged)	Up to 9 hours
Charging consumption	Min. 500 mA

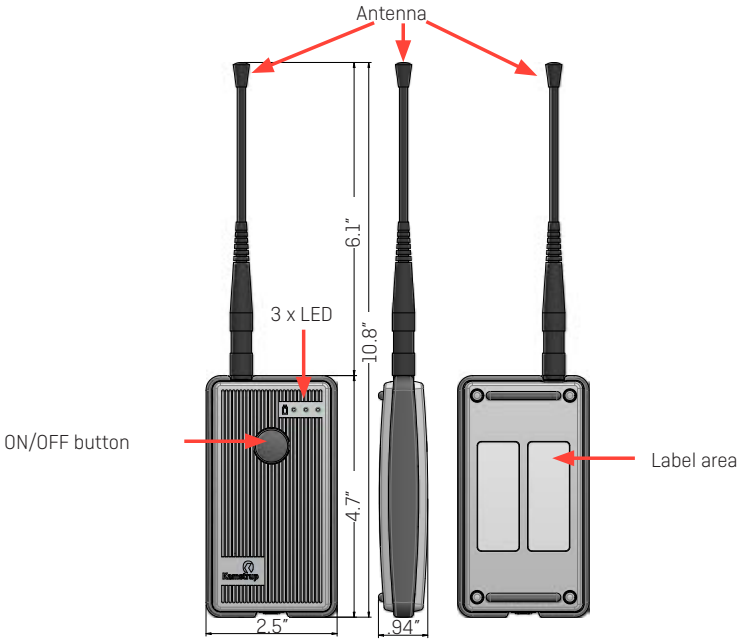
To function optimally, READy Converter must be fully charged at least once every half year.

Supported meter types

Kamstrup meters and modules supporting AMR communication (912.5 - 918.5 MHz).

Dimensions

READy Converter



Marking/standards

FCC ID: OUY-READYAMR3
RoHS
FCC part 15B
FCC part 15C
IC: 22376-READYAMR3

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.

Canadian Compliance Statement

English:

This device complies with Industry Canada license-exempt RSS standard(s). 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.

Complies with the Canadian ICES-003 Class B specifications.

This device complies with RSS 247 of Industry Canada. This Class B device meets all the requirements of the Canadian interference-causing equipment regulations.

This radio transmitter IC ID 22376-READYAMR4 has been approved by Innovation, Science and Economic Development Canada to operate with the antenna types listed below, with the maximum permissible gain indicated. Antenna types not included in this list that have a gain greater than the maximum gain indicated for any type listed are strictly prohibited for use with this device.

Whip antenna:
2.5 dBi

Roof top antenna:
5.2 dBi

Français:

Cet appareil est conforme aux normes CNR exemptes de licence d'Industrie Canada. Le fonctionnement est soumis aux deux conditions suivantes:

(1) Cet appareil ne doit pas provoquer d'interférences et

(2) Cet appareil doit accepter toute interférence, y compris celles susceptibles de provoquer un fonctionnement non souhaité de l'appareil.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

Cet appareil est conforme à la norme canadienne RSS 247. Cet appareil numérique de la Classe B respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

Cet émetteur radio IC ID 22376-READYAMR4 a été approuvé par Innovation, Sciences et Développement économique Canada pour fonctionner avec les types d'antenne énumérés cidessous, avec le gain maximal autorisé indiqué. Les types d'antenne non inclus dans cette liste et ayant un gain supérieur au gain maximum indiqué pour tout type répertorié sont strictement interdits pour l'utilisation avec cet appareil.

Antenne fouet:
2,5 dBi

Antenne de toit:
5,2 dBi

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.

Order information

READy Converter	READyConverterI

Accessories

Magnetic roof antenna, complete	6696 010
Mobile holder	6696 025
Whip antenna	5005 001

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