

Data sheet

• **READy Concentrator 2C**

- Designed as a base station for smart meters within an advanced metering infrastructure (AMI) network
- Built for outdoor installation, READy Concentrator 2C is a robust solution suitable for various weather conditions
- Integral to the Kamstrup wM-Bus and linkIQ® solution concept, providing essential functionality within the system
- Compatible with existing flagpole solutions, READy Concentrator 2C can be mounted at the bottom of a flagpole or house gable, providing seamless integration
- Supports both modem and Ethernet data connections, offering flexibility in data transfer options and transferring reliable data to the head-end system



Application

READY Concentrator 2C is an essential component in advanced metering infrastructure (AMI) networks, serving as a base station for smart meters. Designed for outdoor installation, it is ruggedized to withstand various weather conditions.

This concentrator is a central element of the Kamstrup wM-Bus and linkIQ® solution concept, ensuring seamless integration within the system. It can function as a standalone concentrator, requiring only mains power for operation.

READY Concentrator 2C is versatile and can be installed in different locations, including being installed on flagpoles or mounted on house gables. Its modular design, consisting of three electronic modules internally connected, ensures easy installation and maintenance.

With flexible data connection options, supporting both modem and Ethernet, this concentrator provides reliable data transfer to the head-end system.

Key features

READY Concentrator 2C is a powerful and efficient data collection unit designed for water, heat, and cooling meters.

Increased efficiency

Designed with the network owner in mind, allowing for more meters per data collection unit, thus minimizing the number of sites needed to cover the meter park.

Easy installation

Fully self-contained and plug-and-play, requiring only the connection of the necessary antennas and mains supply for operation.

Pre-installed back-end connectivity

Comes with pre-installed back-end connectivity over 3G/4G cellular connections, ensuring safe and reliable operation for years to come.

Compatibility and versatility

Collects data from the latest linkIQ technology devices while remaining fully compatible with Wireless M-Bus devices, offering enhanced performance and compatibility.

Rugged design

Built to withstand harsh environments, ensuring durability and reliability over time.

System features

Cost reduction

The plug-and-play concept, built-in redundancy and smart transmission scheme enable the unit to read more meters, reducing overall network costs.

Enhanced performance

Utilizes state-of-the-art radio technology to navigate congested areas, communicate over multiple channels and enable narrow-band radio for high penetrating ability, even in challenging installation locations.

Fast notifications

Provides instant notifications whenever an alarm occurs, ensuring quick response to any abnormalities identified within the system.

Storing data

Stores data for 14 days, in case there is a disconnection from the head-end system. This ensures that even if there are fluctuations in the internet connection, there is still a high probability of receiving all the data from the meters.

One-box solution

The one-box solution with integrated power supply and modem offers several advantages, making it an efficient and reliable choice for data collection needs. Integrating the power supply and modem into a single unit simplifies the installation process, reducing setup time and minimizing the risk of errors. With both the power supply and modem integrated into the unit, READY Concentrator 2C becomes a plug-and-play solution, requiring only the connection of necessary antennas and mains supply for operation.

This integration eliminates the need for separate components, reducing system complexity and the risk of compatibility issues. Additionally, it leads to cost savings as there is no need to purchase separate power supplies and modems, reducing both upfront costs and ongoing maintenance expenses.

A one-box solution with an integrated power supply and modem also saves space and makes it ideal for installations where space is limited. Furthermore, integration enhances reliability, ensuring uninterrupted data collection.

The streamlined communication provided by integrating the modem into the unit ensures fast and reliable data transmission to the back-end system. Faster deployment is another benefit as the power supply and modem come pre-installed and integrated.

Convenient maintenance is facilitated by having only one unit to manage and maintain. Moreover, the integrated power supply and modem make READY Concentrator 2C suitable for a wide range of applications, providing flexibility and convenience to users.

Technical data

READY Concentrator 2C is specified below with the available accessories.

READY Concentrator 2C

Dimensions without connections (W x H x D)	252 mm x 444 mm x 165 mm
Weight	8.5 kg
Operating temperature	-30 to 55 °C
Storage temperature	-40 to 85 °C
Enclosure rating	IP66
Power mains	85-265 VAC 50/60 Hz

Capacity

Up to 30.000 Kamstrup Water meters
Up to 10.000 Kamstrup heat and cooling meters

Supported meters

Kamstrup meters with wireless M-Bus (868 MHz)
Kamstrup meters with linkIQ (868 MHz)

Supported technology

Wireless M-Bus according to EN13757-3 at 868MHz – Mode C1 Extended Link Layer, Frame Format B
Kamstrup linkIQ®
OMS LPWAN Burst-Mode UL-B4

Order information

READy Concentrator 2C

Part number	Part	Comment
66962010	READy Concentrator 2C without modem	
30261358	Adapter for wall mounting	
5915856	Accessories bag - AC Mains plug and protection labels, Ring Cable Connector and fasteners	
1643375	RJ45 Connector	
1980663	Drilling template for wall mounting	
66962110	READy Concentrator 2C with modem	
30261358	Adapter for wall mounting	
5915856	Accessories bag - AC Mains plug and protection labels, Ring Cable Connector (1650180), fasteners 3219365	
1980663	Drilling template for wall mounting	
5915854	Onboard Modem + accessories	

Accessories

Part number	Part	Comment
9000047	Mounting bracket Kit for READy 2C	
9000048	Modem upgrade Kit, READy 2C	
9000049	Flag pole READy MK2 Plastbox to READy 2C	
5915875	Cellular backhaul Antenna Extender Kit, READy 2C	
5000474.CP	Antenna Beam	
5000475.CP	Small Clamp for Antenna Beam - for pole assembly 25-120 mm tube	
5000472.CP	Small Cell Bracket for Panel Antenna	
1653113	Mounting bracking downtilt kit for 1653112	

Spare parts

Part number	Part	Comment
9000052	Door Lock Repair Kit, READy 2C	
9000054	Door Replace Kit, READy 2C	In case of vandalism or discoloration
9000055	Void Labels - Sparepart, READy 2C	Resealing READy 2C after service access

Antennas

Part number	Part	Comment
6697032	Omni Antenna 0.6 Meters. 5dBi Gain - N-Connector - 1 port	
6697037	Omni Antenna 1.8 Meters. 8dBi Gain - N-Connector - 1 port	
6697022	Omni Antenna 1.8 Meters. 8dBi Gain - N-Connector - 1 port, Flagpole installation	
6697925	Omni Antenna 2.5 Meters. 11dBi Gain - 7/16-connector	
6697931	Omni Antenna 2.5 Meters. 11dBi Gain. 3° tilt - 7/16-connector	
6697932	Omni Antenna 2.5 Meters. 11dBi Gain. 6° tilt - 7/16-connector	
1653112	Kathrein Panel Antenna. 17 dBi Gain - 7/16-connector	

Antenna Cable

Part number	Part	Comment
5000581.CP	Antenna Cable 2m, N to N connector	To be used with 6697032 & 6697037
5000582.CP	Antenna Cable 5m, N to N connector	To be used with 6697032 & 6697037
5000583.CP	Antenna Cable 10m, N to N connector	To be used with 6697032 & 6697037
5000584.CP	Antenna Cable 2 m N-to-7/16-Connector	To be used with 6697025 & 1153112
5000585.CP	Antenna Cable 5 m N-to-7/16-Connector	To be used with 6697025 & 1153112
5000586.CP	Antenna Cable 10 m N-to-7/16-Connector	To be used with 6697025 & 1153112
6699483	Super Low Loss Antenna 1 pcs. = 50 meter	LMR400 cable
1643337.CP	N-Connector plug Clamp, 50ohm	Rosenberger N-Connector

Ethernet Cable

Part number	Part	Comment
5000476	Eth. Cable 2 m/6.5 ft	
5000478	Eth. Cable 15 m/50 ft	
5000480	Eth. Cable 24 m/80 ft	
5000482	Eth. Cable 45 m/150 ft	
5000484	Eth. Cable 61 m/200 ft	
5000486	Eth. Cable 73 m/240 ft	

Kamstrup A/S

Industrivej 28, Stilling
DK-8660 Skanderborg
T: +45 89 93 10 00
info@kamstrup.com
kamstrup.com