kamstrup

Data sheet

READy Concentrator Wireless M-Bus, C mode

- Intelligent all-in-one Wireless
 M-Bus concentrator
- Designed for wireless collection of data from consumption meters and sensors
- Standardised radio communication according to EN13757-4:2013
- Supports the highest security level
- (individually encrypted meters and sensors)
- Handling of hourly values for up to 15,000
 Wireless M-Bus meters and sensors
- Built-in TCP/IP
- Possibility of 2G(GPRS)/3G
- Saves data for up to 30 days
- Plug-and-play installation





Part of READy Suite

READy Concentrator is the central network component which makes up the infrastructure in a READy fixed network.

Its first priority is to collect metering values from installed Wireless M-Bus meters and sensors and forward data to READy Manager (the superior meter data management system (MDM)) via a wired or wireless internet connection. READy Concentrator supports the reading of Kamstrup Pressure Transmitter. It is possible to read data from priority meters/ sensors and transfer data to READy Manager at intervals of down to every 5 minutes. READy Concentrator is designed for outdoor installation and is easily installed by means of the built-in bracket on the back. When installed outdoors, Radio Concentrator must be installed in a suitable outdoor cabinet.

When installed outdoors in extreme environments, e.g. in chimneys of the utility or other installations located at high elevations, READy Concentrator is installed in a stainless steel cabinet with built-in heating element partly for securing optimal radio coverage, partly for achieving the optimal operation conditions in any weather conditions.

Technical data

Capacity

Up to 15,000 Wireless M-Bus meters.

Frequency

EU licence free frequency bands from 868 - 870 MHz (C1 mode, 868 MHz, one way communication)

Communication

Wireless M-Bus, C1 mode

Standards

EN13757-3:2013 EN13757-4:2013

Transmission intervals

READy Concentrator automatically receives meter data from the READy network either every 16 seconds or every 96 seconds depending on the installed meter types.

Supply

110/230 VAC/50-60 Hz (built-in Switch Mode Power Supply) Recommended supply cable 2 x 0.75 mm²

Current consumption:

Ethernet	6 W
2G/3G idle	6.4 W
2G/3G transmission	11.2 W
Heating element	+30 W (steel box)

Range

Up to 500 m (READy Concentrator installed with whip aerial antenna or panel antenna at a low level on small mast and rooftop).

Typically up to 2,000 m (READy Concentrator installed at a high level with High Gain antenna).

Mechanical data

READy Concentrator – stand	l-alone	
Dimensions (H x W x D)	210 x 168 x 64	
Weight	l kg	and the second se
Temperature range	-40°C+ 70°C	2
		<u>9</u> 2
		READy Concentrator
		kamstrup
		0-005-6
Wireless M-Bus OMNI whip a		
(Ordering number: 6697 032 Frequency range	825 - 890 MHz	
Amplification (gain)	5 dB	
Ampinication (gain)	5 UB	
Wireless M-Bus OMNI panel a (Ordering number: 6697 033		
Frequency range	860 - 930 MHz	
Amplification (gain)	8 dB	0
Wireless M-Bus OMNI panel a		
(Ordering number: 6697 034	+J 800 – 880 MHz	
Frequency range Amplification (gain)	7 dB	1 50
Апринсанон (gan)	7 00	State of Participation
Super low loss antenna cable connector stand-alone	e with N-connector/male	
(Ordering number: 5000 355	5/363)	
Length	10/20 m	
		447

Mechanical data

READy Concentrator in outdo	or cabinet	
Dimensions HxWxD)	400x200x135 mm	
Weight	5.4 kg	
– incl. mounting bracket	7.0 kg	
Protection class	IP44	TEAD Concerning
Temperature range	-40 °C+70 °C	konstrup
Switch/fuse	16A/C10	
Wireless M-Bus OMNI whip ac (Ordering number: 6697 032)		
Frequency range	825 – 890 MHz	
Amplification (gain)	5 dB	
Wireless M-Bus OMNI panel a (Ordering number: 6697 033)		
Frequency range	860 - 930 MHz	
Amplification (gain)	8 dB	
Wireless M-Bus OMNI panel a (Ordering number: 6697 034)		
Frequency range 800 – 880 MHz		
Amplification (gain)	7 dB	8 Post
Super low loss antenna cable for outdoor cabinet (Ordering number: 5000 388		
Length	5/10/20 m	
for outdoor cabinet (Ordering number: 5000 388	/389/390)	

Mechanical data

READy Concentrator in steel cabinet			
Dimensions (HxWxD)	400x200x150 mm		
Weight	ll kg		
Protection class	IP44		
Temperature range	-40 °C+70 °C		
Switch/fuse	16A/C10		
Wind load (at 150 km/h)			
– Frontal	440 N		
– Lateral	100 N		
– Back	460 N		
- Frontal - Lateral	100 N		



Please contact Kamstrup A/S for further information about antennas.

Markings

R&TTE CE marked EN300 220 - class 2, EN301489

Order data

Description	Type no.
Top number: READy concentrator – Stand-alone – Plastic box – Steel box	66961000000 66962000000 66963000000
Antennas: Wireless M-Bus OMNI whip aerial antenna – outdoors Wireless M-Bus panel antenna – outdoors (frequency range 860 – 930 MHz) Wireless M-Bus panel antenna – indoors (frequency range 800 – 880 MHz)	6697032 6697033 6697034
Cables: Super low loss antenna cable with N-connector/male connector – stand-alone – 10 m – 20 m Super low loss antenna cable with 2 x N-connectors/[m]	5000355 5000363
outdoor cabinet - 5 m - 10 m - 20 m	5000388 5000389 5000390

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