

Data sheet

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Radio Link Concentrator

Wireless M-Bus, C mode

- Smart all-in-one Wireless M-Bus concentrator
- Standardised radio communication according to EN13757-4
- Handling of hourly values from up to 1,500 Wireless M-Bus meters
- Built-in TCP/IP
- Possibility of 2G(GPRS)/3G
- Built-in web server for configuration and monitoring



Part of Radio Link Network

Radio Link Concentrator is the central network component which together with Radio Link Repeater/Repeat 100 forms the infrastructure of a Radio Link network.

Its first priority is to collect metering values from installed Wireless M-Bus meters, either directly or via Radio Link Repeater/Repeat 100, and forward data to the superior meter data management system (MDM) via a wired or wireless internet connection.

Radio Link Concentrator is designed for indoor installation and is easily installed by means of the built-in fitting on the back. When installed outdoors, Radio Link Concentrator must be installed in a suitable outdoor meter cabinet.

When installed outdoors in extreme environments, e.g. in chimneys of the utility or other installations located at high elevations, Radio Link 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.

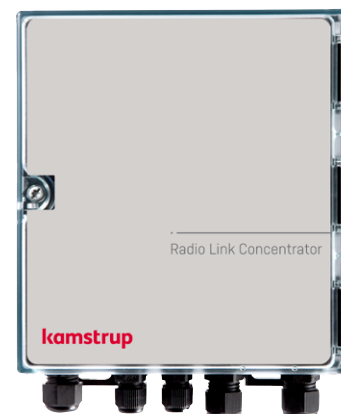
Technical data

Capacity	Up to 1,500 Wireless M-Bus meters.
Frequency	EU licence free frequency bands from 868 - 870 MHz C mode: 868.95 (one-way communication)
Communication	Wireless M-Bus, C mode
Standards	EN13757-3 EN13757-4
Transmission intervals	Radio Link Concentrator automatically receives meter data from the Radio Link network – Every 16 seconds in networks consisting of Radio Link Repeater – Every hour in networks consisting of Radio Link Repeater and/or Radio Link Repeat 100 – Every 96 seconds in networks with extended range
Supply	110/230 VAC/50-60 Hz (built-in Switch Mode Power Supply). Recommended supply cable: 2 x 0.75 mm ²
Power 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 (Radio Link Concentrator installed at ground level with whip aerial antenna or panel antenna). Typically up to 2,000 m (Radio Link Concentrator installed at a high level with High Gain antenna).

Mechanical data

Radio Link Concentrator - Standalone

Dimensions (L x W x D)	90 x 44 x 16 mm
Weight	1 kg
Temperature range	-40 °C...+ 70 °C



Radio Link Concentrator in outdoor cabinet

Dimensions (L x W x D)	400 x 200 x 135 mm
Weight	5.4 kg incl. mounting bracket; 7.0 kg
Protection class	IP44
Temperature range	-40 °C...+70 °C
Switch/fuse	16A/C10



Radio Link Concentrator in steel box

Dimensions (L x W x D)	400 x 200 x 150 mm
Weight	11 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



Markings

R&TTE	EN300 220 – class 2 EN301 489, EN60 950, EN62 311
CE marked	

Ordering

Description	Type No.
Radio Link Concentrator:	6697 04xx
– Standalone	6697 0410
– Plastic box	6697 0420
– Steel box	6697 0430
2G/3G plug-in modem	6697 048