

aquaradio® smart RDC Standard

Radio receiver

Applications

The aquaradio®smart RDC Standard is a Smart Metering transceiver based on the Open Metering System Specification (OMS-S) and designed for implementing a radio fixed network with excellent cost-effectiveness and technical specification.



Features

- Remote and local configuration
- Receiving of meter data via 868 MHz
- Compression and encryption for data transport
- Intelligent and modular installation concept

Benefits

- Collection and processing of up to 100 / 500 / 1000 radio devices
- Secure and flexible data export to FTP-server
- Individual data logging (5 minutes – 24 hours)
- Central and individual firmware update

Архангельск (8182)63-90-72
Астана +7(7172)727-132
Белгород (4722)40-23-64
Брянск (4832)59-03-52
Владивосток (423)249-28-31
Волгоград (844)278-03-48
Вологда (8172)26-41-59
Воронеж (473)204-51-73
Екатеринбург (343)384-55-89
Иваново (4932)77-34-06
Ижевск (3412)26-03-58
Казань (843)206-01-48

Калининград (4012)72-03-81
Калуга (4842)92-23-67
Кемерово (3842)65-04-62
Киров (8332)68-02-04
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Курск (4712)77-13-04
Липецк (4742)52-20-81
Магнитогорск (3519)55-03-13
Москва (495)268-04-70
Мурманск (8152)59-64-93
Набережные Челны (8552)20-53-41

Нижний Новгород (831)429-08-12
Новокузнецк (3843)20-46-81
Новосибирск (383)227-86-73
Орел (4862)44-53-42
Оренбург (3532)37-68-04
Пенза (8412)22-31-16
Пермь (342)205-81-47
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Рязань (4912)46-61-64
Самара (846)206-03-16
Санкт-Петербург (812)309-46-40
Саратов (845)249-38-78

Смоленск (4812)29-41-54
Сочи (862)225-72-31
Ставрополь (8652)20-65-13
Тверь (4822)63-31-35
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Тула (4872)74-02-29
Тюмень (3452)66-21-18
Ульяновск (8422)24-23-59
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Ярославль (4852)69-52-93

1 Operating principle

Der aquaradio®smart RDC Standard receives radio telegrams according to EN13757 and the Open Metering System Specification (OMS-S) independent of the measured medium. These are saved at a set logging interval using an optional device list or filter function (e.g. according to medium or manufacturer). The collected and processed data are exported fully automatic and secure in flexibly settable intervals or time points to an FTP server, where IZAR@NET or other systems can load the files for further processing. This happens automatically without the need to address each aquaradio®-smart RDC Standard individually. A subsequent individual or higher-level configuration or a firmware update is also controlled via the central FTP server.

2 Technical specifications



Housing

Possible display media

Antenna

Device list

Data logging

LED Display

Range of reception

Light grey housing with intelligent and modular installation concept

Independent of media (Water, Energy, Gas...)

2 internal ISM antennas or

2 external connections

Up to 100 / 500 / 1000 meters

Individual adjustable (5 minutes – 24 hours)

2 LEDs for status display

Up to 1000 m outdoors or 50 m indoors

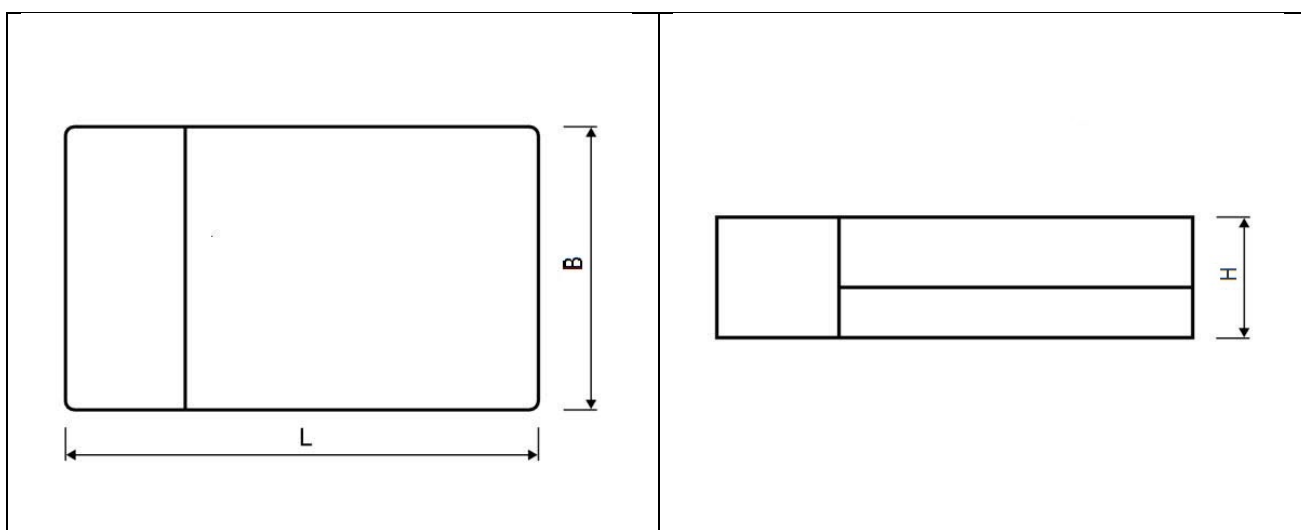
aquaradio®smart RDC

Versions / Frequency band	868,95 MHz (OMS, wMBUS according EN 13757-3,-4, PRIOS)
Interfaces	LAN (Ethernet), GPRS
Logging capacity	>800.000 Telegramme
Power supply	100 ... 230V AC
Typical power consumption	3 W
Protection class	IP 40
Betriebstemperatur	-25 °C... +65 °C
Operating temperature	-30 °C... +70 °C
Humidity	10 %... 70 % (non-condensing)
Clock	Internal with synchronisation
Weight	250 g

3 Project planning notes

Sortiment			
aquaradio smart RDC S 100 868	100 Meters, all antennas internal	Art.Nr. 80793	
aquaradio smart RDC S 100 868 GPRS	100 Meters, GPRS antenna external	Art.Nr. 80794	
aquaradio smart RDC S 100 868 GPRS ISM	100 Meters, all antennas external	Art.Nr. 80795	
aquaradio smart RDC S 500 868	500 Meters, all antennas internal	Art.Nr. 80796	
aquaradio smart RDC S 500 868 GPRS	500 Meters, GPRS antenna external	Art.Nr. 80797	
aquaradio smart RDC S 500 868 GPRS ISM	500 Meters, all antennas external	Art.Nr. 80798	
aquaradio smart RDC S 1000 868 GPRS ISM	1000 Meters, all antennas external	Art.Nr. 80799	

4 Installation



Length	L	200 mm
Width	B	140 mm
Height	H	50 mm

For additional informations regarding installation and start-up, please read the installation guide.

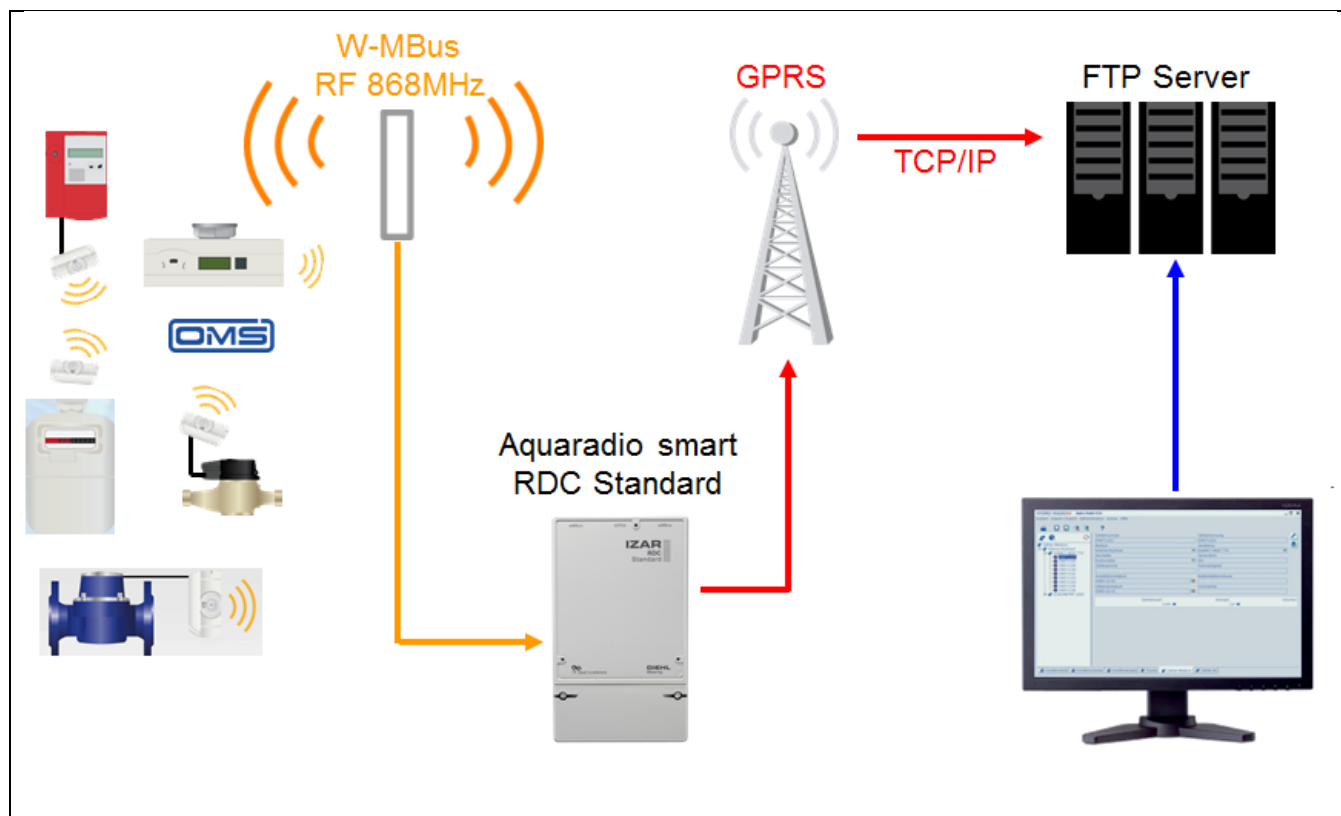
5 Display and user interface

Programming is performed exclusively via the RDC-S Configurator software.

6 Accessories

Accessories		
aquaradio smart RDC Antenne GPRS/868	Antenna OMS/GPRS	Art.Nr. 80800

Example Fixed Network with aquaradio@smart RDC Standard



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