

aquaradio® and radio controller CS Wireless meter reading

Application

The radio modules by Aquametro enable you to log the consumption data of up to 7 electricity, water and gas meters. Unique features are the transmission of the complete CS/CL protocol via the radio controller CS, and the completely watertight metal casing of aquaradio®. Meter readings of electricity, water and gas consumption can be collected with one or several radio modules in a building without entering the premises.



Features

- Connection for CS/CL, pulse or Namur input.
- Can connect up to 7 meters per radio module.
- Interference-proof and adaptive radio technology.
- Fixed date and logger functions.
- Bi-directional radio, sends only on request.
Emanation reduced to a minimum.

Benefits

- Meter reading without need to enter premises.
- Transmission of complete IEC 62056-21 (IEC 1107) protocols.
- Date-specific reading.
- No expensive building measures.
- Secure transmission, no reading errors.
- Simple data transfer to your administration software.

Product Range

radio controller CS

The radio controller CS unit is designed for the wireless reading of consumption data from electricity, water and gas meters with CS interface, pulse or NAMUR output. A maximum of 5 addressable devices can be connected to the CS input. In addition, there are two inputs for pulsers. The radio controller CS unit has two programmable fixed days and 16 logger values and is thus able to store 18 preset values. Suitable for broadcast readings, which automatically reads all radio units in the receiving range.

System module	Art. No. 80250
radio controller CS	
Power supply	230 VAC
Radio frequency	433 MHz
Inputs	- 1 CS input according to IEC 62056-21 (IEC 1107) - 2 pulse inputs, max. 20 Hz, suitable for Reed, Open Collector, aquapuls® and NAMUR IEC 60947-5-6 (DIN 19234)
Fixed days	2
Logger functions	- 16 logger values per pulse input with meter reading, peak value and time - 16 logger values per CS-unit at 120 bytes - the logger values can be formed daily, weekly or monthly
Type of protection	IP 54
Ambient temperature	-5 to 55 °C
Transport and storage temperature	-20 to 70 °C
Permissible ambient humidity	5 to 98 % relative humidity, no condensation
Clock power reserve	1 h
Mounting type	Wall mounting or on DIN rail

aquaradio®

The aquaradio® module has a high degree of IP68 protection, its own power supply and a metal casing. It is suitable for the following applications:

- high standards regarding type of protection
- rugged environmental conditions
- network-independent operation
- shaft applications with occasional immersion in water

System module aquaradio®	Art. No. 80188
Power supply	Battery, operating life approx. 12 years
Radio frequency	433 MHz
Inputs	2 pulse inputs, max. 10 Hz, suitable for Reed, Open Collector and aquapuls®
Type of protection	IP 68
Ambient temperature	-5 to 50 °C
Transport and storage temperature	-20 to 70 °C
Permissible ambient humidity	5 to 98 % relative humidity, dewing permitted
Mounting type	Wall mounting with mounting set Art. No. 80190

System module aquaradio®	Art. No. 80176
Power supply	Battery, operating life approx. 12 years
Radio frequency	433 MHz
Input	aquaonline® and gasdata®
Cable length	permanently attached 1.5 m, can be lengthened
Type of protection	IP 68
Ambient temperature	-5 to 50 °C
Transport and storage temperature	-20 to 70 °C
Permissible ambient humidity	5 to 98 % relative humidity, dewing permitted
Mounting type	Wall mounting with mounting set Art. No. 80190

System module aquaradio®	Art. No. 80189
Power supply	Battery, operating life approx. 12 years
Radio frequency	433 MHz
Input	permanently attached with aquapuls® 100 l
Cable length	2 m, cannot be lengthened
Type of protection	IP 68
Ambient temperature	0 to 50 °C
Transport and storage temperature	-20 to 70 °C
Permissible ambient humidity	5 to 98 % relative humidity, condensation permitted
Mounting type	Wall mounting with mounting set Art. No. 80190

Radio modem

The radio modem is required, together with a PDA, to read the data and set the parameters of the radio modules once.

Radio modem	Art. No. 92962
Version	aquaradio® GMM4
For use with	aquaradio® and radio module GMM4
Power supply	battery
Radio frequency	433 MHz
Ambient temperature	-20 to 50 °C
Transport and storage temperature	-20 to 70 °C
Permissible ambient humidity	5 to 98 % relative humidity

Radio modem	Art. No. 92990
Version	aquaradio®
For use with	aquaradio® radio module
Power supply	battery
Radio frequency	433 MHz
Ambient temperature	-20 to 50 °C
Transport and storage temperature	-20 to 70 °C
Permissible ambient humidity	5 to 98 % relative humidity

Radio modem	Art. No. 93885
Version	CS radio controller
For use with	aquaradio® radio module and CS radio controller
Power supply	battery
Radio frequency	433 MHz
Ambient temperature	-20 to 50 °C
Transport and storage temperature	-20 to 70 °C
Permissible ambient humidity	5 to 98 % relative humidity

Accessories



Mounting set for wall mounting of aquaradio®
Art. No. 80190



Terminal box VD-22, for universal application as a connecting box
to take cross-sections 0.14...1.5 mm², max. 48VAC
Art. No. 80212

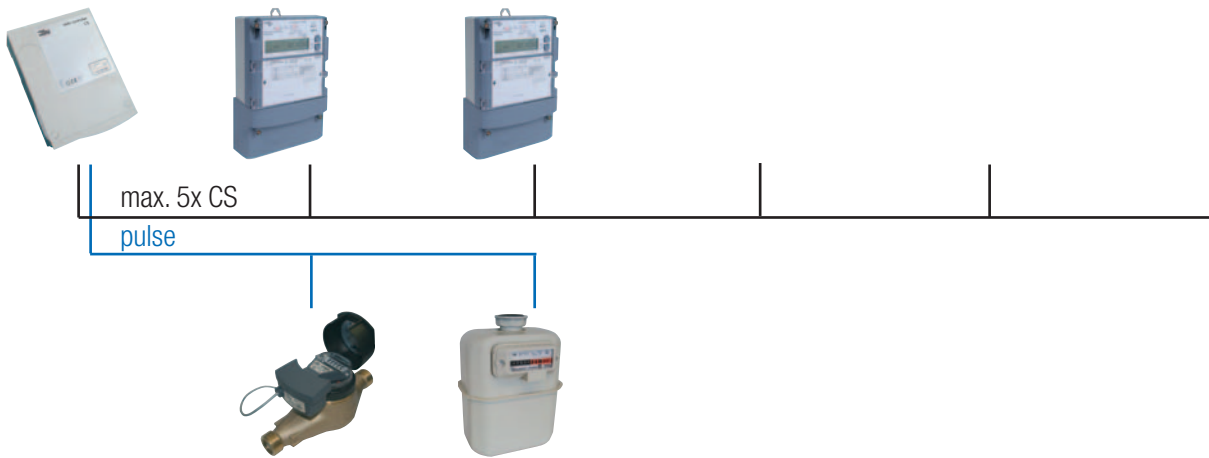
Examples of application

Wireless reading



House divided into two flats

Remote combined reading of electricity, water and gas



Apartment building

Remote reading of electricity and water



Use in a shaft or gully

Remote water reading



Authorised Channel Partner in India

Universal
engineers

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