

# NorthQ-92021 Smart Meter Reader

NorthQ – Meter Reader for visualization of power consumption.

NorthQ, in collaboration with Dong Energy, has developed a small meter reader that can be easily installed on existing electronic or mechanical meters in order to visualize electricity consumption in private homes. The meter reading solution is based on the Z-Wave wireless standard, which is ideal for controlling automation products within the home.

The product consists of 3 parts: a meter reader, a battery-powered wireless transmitter and a USB receiver. Electricity usage data is transferred to a chosen PC every 15 minutes, where it can then be visualized in the form of graphs, enabling customers to keep track of their electricity consumption (in kWh and EUR), and monitor their CO2 emissions, etc.. It is also possible to receive real-time measurements in order to investigate how much each individual appliance uses in active or standby mode.

Furthermore, it is possible to enter a power budget for how much you want to consume in EUR per year. A widget on the screen continuously monitors and updates electricity consumption data to indicate whether you are under or over budget. You are then able to compare your electricity consumption in the current year with that in previous years. It is also possible to compare the consumption in your current home with that in other types of dwelling, e.g. apartments, houses, villas, etc..

The meter reading solution can also be used in conjunction with the portal [www.eualarm.tv](http://www.eualarm.tv) or Google PowerMeter to get an overview of your total energy consumption and thus enable you to manage your home in a more energy efficient way. Apart from the obvious financial benefits this solution enables you to play a part in the global efforts to improve our environment through the reduction of CO2 emissions.



## Wireless communications

- Frequency: 868.42(EU)/908.42(US) MHz Z-Wave™ technology
- Update Rate: Approximately every 15Min
- Remote Distance: At least 50ft(15M-30M), indoors when properly installed in a typical environment.

## Supports

- EU/US Z-Wave (5.02) RF version
- AEC (Advanced Energy Control framework from SigmaDesign)
- Mechanical (Ferraris type) and electronic meters
- Wireless firmware update

## Software compatibility

- XP/VISTA/WINDOWS7/MAC

## Battery lifetime

- Mechanical meters: min.10 months w/15 minutes interval
- Electronic meters: min.15 months w/15 minutes interval

## Specifications

- Detachable 5 meter sensor cable for increased transmission range
- Weatherproof (both wireless transmitter and sensor cable)
- Wallmount bracket included
- Pairing/unpairing/reset button/wake up button (realtime mode)
- LED indicator to indicate pairing, unpairing, reset and pulse counts
- 512k eeprom (equivalent to 3 months meter data storage with 15 min. interval)
- Real Time Clock