

Arthur D Riley & Co Ltd

ADR has developed Cloud based solution with a focus on enabling data to be fully utilized and have spatially aware database and interfaces.

For Data Acquisition of meter reading data the solutions utilises a fixed network and provides customer's easy access to "cloud" based solution via a secure web portal.

This solution can help with reduced capital expenditure, improved system reliability, improve the network efficiency, with a low cost of ownership.

ADR existing installations and experience is vast as we monitor many industrial and commercial sites in New Zealand, including Watercare Auckland –commercial, Kapiti DC Council Parks irrigation schemes, Auckland International Airport, Port of Lyttelton Christchurch, Centre Port Wellington, and various apartment / hotel complexes –residential.



Data Acquisition and Management



The data from all of the devices/sensors above are all able to be captured by the ADR hosted monitor management system. The strength of this system is to be able to take data from a number of data sources and both present and manage the acquired data using a common set of management tools. All of the meter interface units supplied by ADR are a fully integrated with the Monitor solution.

Benefits

- Retrofit to existing meters / devices
- Future proofing with IoT technology
- Locally supplied and supported
- 'Near Live' alarm notifications
- Configurable measurement intervals



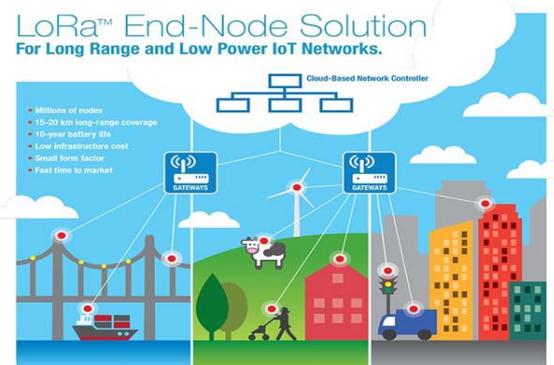
Smart Metering Objective

- Provide a cost effective solution to upgrading to smart meters
- Create an independent water network
- Monitor Minimum night flows
- Real time billing,
- The ability to pick up leakages and bursts.
- Monitor meter readings for fraud

LoRaWAN Overview

LoRaWAN stands for Long Range Wide Area Network. It is a low power wireless technology mainly targeted for M2M and IoT networks. LoRaWAN will enable public or multi-tenant networks to connect multiple applications running in the same network. This LoRaWAN technology will continue to develop smart building & cities with the help of LoRa sensors and devices in New Zealand.

- NZ/AUS compliant
- LoRa AS923 Standard
- Range up to 15 km
- A LoRa gateway takes care of thousands of nodes
- Long battery life



Internet of Things (IOT)

At its most simplistic, IoT is the result of low-cost computing that connects everything on the planet, computer to computer, which is the global transfer of data without the need for human intervention.

Smart water meters are a form of IoT, a network of technologies which can monitor the status of physical objects, capture meaningful data, and communicate that data over a wireless network to a software application for analysis on a computer in the cloud. A smart device is associated with each object which provides the connectivity and a unique digital identity for identifying, tracking and communicating with the object. A sensor within or attached to the device is connected to the Internet by a local area connection and can also have wide area connectivity. Typically, each data transmission from a device is small in size but the number of transmissions can be frequent.



fieldsmart technology



ADRhandheld

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