VAN WALT
equipment for soil and water research

vanwaltDataNode

The vanwaltDataNode turns any sensor into a wireless unit. It sits at location and transfers sensor measurements using radio frequency. The DataNode can accept inputs from SDI-12, MODBUS and Pulse sensors.

Inside the DataNode is a radio "tile" which enables it to communicate with a PC or a vanwaltDataGateway wirelessly over a considerable distance, up to 10 km line of sight.

Features

- Data logging with wireless data recovery
- **Cost-effective for telemetered networks**
- Up to 30 DataNodes can be daisy chained in a telemetered network with our DataGateway
- **License and subscription free**
- Designed to operate independently or part of a network
- Suited for deployment in hard to access areas
- Secure wireless communication
- Low powered sleep mode with automatic wake up at required measurement interval & upload
- Battery pack available for higher power applications
- Designed by and manufactured in the UK under license by Van Walt Ltd

Dimensions	125 x 125 x 80 mm + Antenna
Frequency UK & Europe New Zealand	• 869.450 – 869.625 MHz • 921.400 – 921.525 MHz
Enclosure	Diecast Aluminium, nylon coated
Ingress Protection	Sealed to IP68
Communications	• DataGateway • Config Tool
Power Supply	• Internal 2 x AA Batteries • Switchable 12V sensor output supply
Protocols	◦ MODBUS RS485 ◦ SDI-12 ◦ Pulse

Compatibility Options

- vanwaltGateway
- vanwaltDataRelay
- SDI-12, MODBUS & Pulse sensors, including:
  - Keller level & temperature sensor
  - Keller narrow diameter sensor (16mm)
  - Keller CTD
  - Keller surface level sensor
  - INW TempHion sensor
  - INW DO sensor
  - INW Turbidity sensor
  - AquaTroll 500
  - Meteorological sensors, inc rain gauge & weather station
  - Soil moisture sensors

Applications

- Environmental research
- Flood risk monitoring
- Property care and protection
- Well, tank, tidal water level monitoring
- Wetland and Peat Bog monitoring & surveys
- River, stream, reservoir gauging
- Surface & storm water runoff monitoring
- Resource administration
- Saltwater intrusion monitoring & tracking
- Agricultural runoff studies
- Discharge monitoring