

## vanwaltDataGateway

The vanwaltDataGateway telemetry unit is designed, developed and manufactured by Van Walt in the UK.

Designed for reliable data collection in remote locations, the system acts as a central hub capable of receiving data from up to 32 DataNodes via line-of-sight radio transmission.

Ideal for distributed environmental monitoring networks.

### Features

- **Robust Construction:** Housed in a heavy-duty, IP68-rated aluminium enclosure.
- **Designed for networks with multi-sensor requirements:** (e.g. water level, pH, EC, redox, temperature, rainfall, water flow, soil moisture, turbidity, and other water quality parameters).
- **Secure Data Storage:** Utilises non-volatile, encrypted memory to ensure reliable and secure data retention.
- **Data Viewing & Forwarding:** Data can be accessed through vanwaltCONNECT software or automatically forwarded to a customer's server.
- **Customisable Alarms:** Set threshold-based alarms (e.g., low water level), with alerts delivered via email for near-real-time notifications.
- **Self-Sustaining Power Supply:** Powered by three internal rechargeable batteries charged via a front-mounted solar panel, enabling low-maintenance and discreet installations.
- **Plug & Play Nodes:** Add or remove DataNodes without any configuration changes to the DataGateway.
- **Reliable Connectivity:** Data is transmitted via cellular LTE networks with automatic fallback to 2G, using a roaming SIM that connects to the strongest local signal.
- **All collected data is sent to a secure cloud server hourly,** with the option to adjust upload frequency.
- **Status Indicators:** Built-in LED indicators display system status, communication activity, and data transmission states for easy diagnostics.

### Compatibility Options

- vanwaltDataNode
- vanwaltDataNode-Mini
- vanwaltDataRelay
- vanwaltConnect



Dimensions	220mm (330mm inc' antenna & cable gland) x 120mm x 80mm (8.66" x 4.72 x 4.15")
Weight	2.05kg (5.5lbs)
Enclosure	Aluminium
Ingress Protection	IP68
Operating Temperature	-20 to 50 °C (-4 to 122 °F)
Power Supply	<ul style="list-style-type: none"> <li>• 3 x C cell 1.2V NiMH</li> <li>• 6V 2W built-in solar panel</li> <li>• <i>Option:</i> external 7-15V</li> </ul>
Communications	<ul style="list-style-type: none"> <li>• Narrowband GMSK adaptive mesh network</li> <li>• LTE with 2G fallback</li> <li>• Optional Iridium Satellite data module</li> </ul>

### 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
- Water quality monitoring
- Meteorological
- Surface water / flow
- Soil Moisture