Monitoring, telemetry and early warning solutions

Smart wireless data loggers for remote asset monitoring

Alarm & early warning systems for storms, floods & pollution

On-line time-series analysis & database systems

Rainfall, water-level & flow measurement specialists

INSTRUMENTATION • COMMUNICATIONS • SOFTWARE • DATA SERVICES

www.isodaq.co.uk
Our mission is to supply the very best value solutions to help your business reduce the cost of monitoring and improve timely access to high quality data on-line, whether for asset monitoring, environmental compliance or emergency response.

Our ISODAQ range of battery-powered telemetry outstations have been specifically designed for continuous monitoring applications at remote sites where uninterrupted operation is essential often under the most hostile environmental conditions.

An ISODAQ telemetry data logger lies at the heart of each system, providing the crucial communication link between the measurement sensor and a desktop information system. Our technology is state-of-the-art yet designed to be very easy-to-use. Our solutions are not just affordable, but can help your organisation realise significant operational benefits by reducing costs, improving efficiencies or emergency response through early warning of key events such as floods or pollution.

Our Log2Net solutions provide well-integrated, field proven, on-line monitoring systems connecting a wide choice of measurement sensors to the internet via our range of ISODAQ wireless data loggers:-

### Log2Net - live data wherever you are whenever you want

- **Install sensors**
  - Rain gauges
  - Weather stations
  - Level gauges
  - Flow meters
  - Quality probes
  - Pump/gate status

- **Connect loggers**
  - Tadpole
  - Frog RX
  - Hawk XT
  - IridiumLink

- **Set-up IP comms**
  - GSM/GPRS/3G

- **Collect data**
  - Secure web servers
  - Timewave data service

- **Information & alarms**
  - Email & SMS texts

### Log2Net Key Benefits

- Easy-to-use telemetry systems
- Wide range of measurement sensors
- Designed to reduce installation costs
- Choice of modem communications
- Early warning systems with alarms
- Powered by batteries or renewables

### Isodaq Model Features

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<tr>
<th>Model</th>
<th>Features</th>
<th>Typical Application and Sensor Options</th>
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| Tadpole R2/R3 | • Sealed-for-life main board  
• GSM/GPRS or 3G modem  
• 16 channel logger  
• Separate 2xD Alk D Cells  
• External antennae  
• Digital/Frequency/SDI12 | Rainfall and weather measurement  
• Tipping bucket rain-gauges  
• Weighing principle rain-gauges  
• Mini-weather stations  
• Wind speed and direction |
| Frog RX | • IP68 sealed enclosure  
• GSM/GPRS modem  
• 8 or 16 channel logger  
• Internal Lith or Alk battery  
• Internal or ext antennae  
• Digital/4-20ma/SDI12 | Water level and flow measurement  
• Submersible depth pressure transmitters  
• Incremental float-weight shaft-encoders  
• Non-contact radar or ultrasonic sensors  
• Weirs, flumes and stage-discharge ratings |
| Hawk XT | • IP65 sealed enclosure  
• GSM or PSTN modem  
• 8 or 16 channel logger  
• External antennae  
• LCD Display  
• Digital/4-20ma/SDI12 | Water quality measurement and sampling  
• Multi-parameter quality probes  
• Conductivity, DO, pH and Turbidity  
• Landfill leachate monitoring  
• Automatic sampler triggering |
| Hawkeye 2i | • ATEX certified IP68 enclosure  
• GSM/GPRS modem  
• EDM or level sensor option  
• Internal or external antennae  
• 96Ah Lithium battery pack  
• 2 x digital or 4-20ma inputs | Urban sewer level and CSO alarms  
• Sensors for Event Duration Monitoring  
• Choice of ultrasonic or depth pressure sensor  
• CSO overflow or sewer flooding alarms  
• Installed in chambers under manhole covers |
ISODAQ telemetry loggers come with a high degree of flexibility for connectivity with client systems with options to suit small and large monitoring networks. Accessing latest remote site data has never been easier... without ever having to leave your desk! In fact, you can browse the data wherever you have a Wi-Fi connection to a portable laptop or Tablet computer.

Our **Timeview** range of telemetry server software offers a choice of basic file transfer communications or fully-featured automated data capture and alarm management functionality. **Timeview Telemetry** is ISODAQ’s browser-operated software operating as the core data acquisition server system for all our integrated Log2net solutions – linking remote-site measurement sensors to the internet via an ISODAQ telemetry data logger. The software is very intuitive and requires no formal training. This web-data service is not only used to display recent data but can also control most logger functions remotely and configure data capture and alarm forwarding.

The web-site software is accessible with **Timeview Telemetry**, which can be customised if required to meet individual needs as an annual data bureau service for small networks of outstations, or if preferred for larger networks, clients may prefer to arrange a dedicated hosted service on a secure cloud server.

Full integration with clients existing SCADA telemetry servers is also possible using international open M2M protocols such as DNP3 or Modbus ASCII, in which case no other data capture software is required.

**Specialists in wireless communications**

ISODAQ offers a choice of battery-powered wireless communications system suitable for remote-sites where fixed line communications are not available. As digital communications technology changes and improves, our engineers have the expertise to keep updating modems, protocols and SIMs to match evolving mobile network technology. For mobile services, we currently support GSM CSD, SMS, GPRS and 3G protocols for transmitting data and alarms, with options for low-cost roaming SIMs available to improve comms reliability in areas with no dominant mobile service provider. For locations where mobile network signals are weak or non-existent, we offer a telemetry logger with an Iridium satellite modem.

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**Summary of options**

| **Timeview Telemetry web-site service** | Low-cost bureau data service charged per site per annum—ideal for small networks. |
| **Timeview TVA customised server** | Dedicated cloud-based server service can be arranged for large network applications. |
| **Timeview XDQ server commands** | Windows Service that monitors a TCP/IP port to capture data or send reconfiguration files. |
| **Timeview DBi time-series database** | Web portal for long term availability of time series data with options for data analysis. |
| **Floodview flood information** | Shares simple graphic display of data and alarm status with multiple users e.g. general public. |

**Key benefits of Timeview**

- Web-site bureau service or licensed software
- Operates via standard browser on PCs or Tablets
- Easy to operate with minimal training required
- Clear and easy to understand graphics
- Automatic data collection from remote sites
- Scalable from small to large networks
- Alarms generate emails or SMS text messages
- No need for GSM modem - GPRS connects via IP
- Remote configuration of logger set-up

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For more details on these or any other ISODAQ Technology products please call us on: 01885 483789
email: sales@isodaq.co.uk
or visit our website: www.isodaq.co.uk
Flow measurement product range
Hydro-Logic Services LLP is Isodaq Technology’s sister Company within the Hydro-Logic Group and together we have earned an enviable track record as the UK’s leading specialists in the design, supply and installation of state-of-the-art flow measurement systems for watercourse and treatment works channels as well as partially-filled drainage pipes. With extensive field experience of all the very latest velocity-area method sensors, we work with a number of world-leading flow-meter manufacturers to bring you the most appropriate technology for your application, including:

- Rivers and irrigation channels - Transit-time flow meters
- Current-meter gauging systems - Acoustic Doppler Current Profilers
- Small streams, urban channels and culverts - Ultrasonic Doppler flow meters
- Partially-filled sewer pipes - ATEX ultrasonic correlation or pulsed Doppler meters

Isodaq Technology - 30 years track record of delivering monitoring solutions
For more than 30 years, we have been at the forefront of the digital and information technology revolution, providing innovative solutions for collection and information management to clients in the water and environmental protection industries. We design and manufacture a range of telemetry systems which have been distributed to more than 40 countries around the world. We are a leading supplier in the UK to numerous local drainage authorities, water company utilities and rivers and environmental regulators.

Our telemetry solutions are affordable and easy to operate without the need for expensive IT infrastructure. Our real-time systems can provide significant benefits by reducing costs and improving operational performance:

- Real-time information - on-line capture of the latest data and trends
- Reduced site visits - saving on the cost of data collection from remote sites
- Prioritised maintenance - send out maintenance crews with timely status data
- Licence compliance - spotting early trends towards licence compliance failure
- Automatic warning - generating alarm messages to alert staff of key events

There is an ISODAQ system to suit most client requirements and budgets, including applications such as flood warning and pollution alerts, where real-time information and alarms are required simultaneously from large networks of several hundred remote telemetry outstations.

A Hydro-Logic Group Company
Hydro-Logic Ltd was founded in 1985 by Rod Hawnt, a Chartered Civil Engineer and Water and Environmental Manager. The business has grown steadily and now employs more than 50 permanent staff in offices across the UK. In 2013, the Company formally demerged into two separate trading businesses to form the Hydro-Logic Group, with the original Company continuing to trade as Isodaq Technology specialising in the development and sales of monitoring technology products.

Hydro-Logic Services LLP (HLS) was established in 2013 to operate the Group’s consultancy and field operations business specialising in water resource management, flood risk hydrology, hydrometric engineering and monitoring network management. HLS is lead by Dr Colin Fenn, a Chartered Scientist and Water and Environmental Manager, following the merger of his own water resources consultancy practice into the new business.

A key strength of the Group is in the experience and capability of key staff to understand client’s needs and to design and deliver turnkey solutions in demanding environments.

For this purpose our inter-disciplinary teams of project managers, engineers, scientists, instrumentation and software specialists are drawn from both parts of the Group, which enables us to provide a fully integrated quality solution including installation and on-going maintenance services if required.