

Data may be accessed / downloaded in several ways:

- Direct RS232 connection e.g. laptop or data radio
- IP based packet transfer
- CSD dial-up data link
- SMS text back (immediate sensor values only)
- Voice annunciation (iRIS 350V only)

iCE³ - Wireless Data Circuit Extender (IP Capable)

The iCE³ has been designed and constructed as a compact, intelligent unit to access legacy RS232 equipment through a wireless IP network. It can manage either a permanent link (on private/static networks) or a scheduled connection regime (on public/dynamic networks).

Two iCE³ variants are available, one for the international GSM market and also one for the 3G networks using HSDPA such as Telecom NZ's XT@ or Telstra Australia's Next G™ networks.

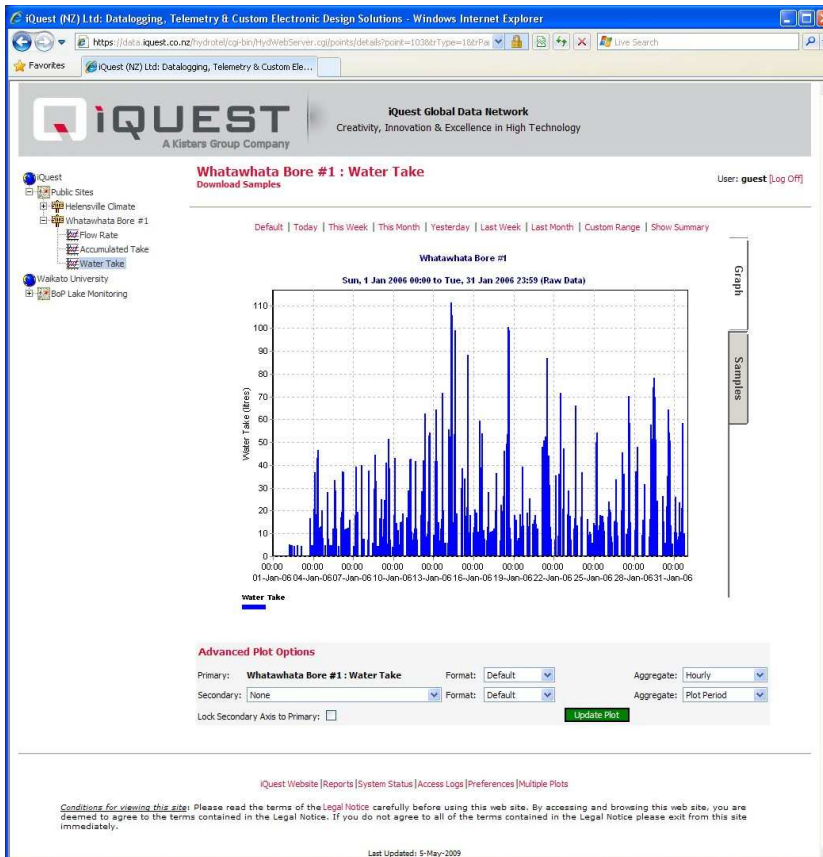
There are two physical communications interfaces:

- RS232 (DCE configuration)
- GSM / GPRS modem or HSDPA (3G) modem



Global Data Network

Information - When You Need It – Anywhere in The World



<https://data.iquest.co.nz>

- Graphical – Textual – Downloadable
- User-customisable Interface/Content
- Secure Access
- Email and SMS Alarms
- Telnet Service for Automated Data Downloads
- Digital Output Control
- User-defined Sensor Configurations



iQuest has been approved by Environment Canterbury as a supplier of dataloggers and telemetry for the Selwyn/Rakaia water meter monitoring programme. Our products feature...

- * iRIS 150 Datalogger
- * iRIS 350 GPRS/3G Datalogger
- * iCE³ GPRS/3G Circuit Extender
- * iQuest Global Data Network

iQuest has been supplying Regional Councils throughout New Zealand since 1989 and is currently the largest supplier of monitoring software to Regional Councils in New Zealand. In addition, these councils and other environmental authorities use the iQuest range of iRIS dataloggers. The smaller iRIS 150 is ideal for the manual monitoring of **water meters** and can be easily modified to telemeter water use data with the addition of an iCE³, (circuit extender) which is available in either GPRS (Vodafone) or 3G (Vodafone/Telecom) variants, dependant upon coverage. (Don't try to interpret, we can explain over a phone call if you wish). This device is EASY to use (and fun!), is accurate and more to the point, does the job well. The larger iRIS 350 has a built in modem, either GPRS or 3G and is capable of a larger number of functions.

A large number of both the iCE³ and the iRIS 350 have recently been installed in New South Wales, Northern Territory and the Sultanate of Brunei. In every case, these dataloggers have been working with iQuest's HydroTel™ environmental monitoring software. All iQuest products carry a 12 month return to base warranty and full support is given to assist all end users to 'come to grips' with this reliable technology. iQuest has all the resources to ensure the data required by ECan as part of your resource consent is presented in a compliant format. Regardless of whether telemetry is employed or not, iQuest provides a software package with all its products mentioned at no cost to you. This software provides a straightforward, no fuss means of configuring your datalogger if changes need to be made that differ from those at the time of manufacture and for downloading the data to a laptop computer or similar. Again, if difficulties are encountered, and we know that good farmers aren't always good computer technicians, then iQuest is only a phone call away to assist.

Here are our products in greater detail.

iRIS 150 Compact Multi-Parameter Datalogger

The iRIS 150 has been designed and constructed for portable, outdoor use. It is distinguished by being water-proof, self-powered and compact, yet still featuring an LCD display and keypad. It is ideal for the monitoring of water meters, and features two analogue (0-5V, 0-20mA) inputs, two digital inputs, limited SDI-12 serial instrument support and a single digital output for alarm or control purposes.

Communication with the iRIS 150 is via its RS232 port. This port can be connected directly to a PC / laptop or else to a telemetry device such as a modem or the iQuest iCE³ for IP based communication.

Optional USB slave communication is also supported via a miniature USB slave connector. The iRIS is supplied with this connector protected behind the label. NOTE: The front panel must be voided to use the USB port.

When not in telemetered mode, the iRIS 150 serves out its own menus via a terminal session, allowing configuration to be performed with any standard terminal software such as HyperTerminal®.

iRIS 350 Wireless (IP Capable) Datalogger

The iRIS 350 has been designed and constructed for use in harsh outdoor and industrial environments. It is compact, cost effective and easily configured, with support for a wide range of instrumentation: There are four physical communication interfaces:

- RS232
- Optional wireless modem. GSM/GPRS or HSDPA (3G).
- SDI-12 serial instrumentation
- Serial camera

