LINK™

Industrial Low-Power Wireless Logger

The LINK-GPRS is a rugged 6-Channel data logger that wirelessly extends the range of the Watercheck system. The LINK-GPRS requires an EVO master to relay data back to www.watercheck.co.nz. Connect most analog/ digital meters & sensors as well as RS-232, RS-485 & SDI-12 based digital meters & sensors.

Data is displayed in web-based graphs & reports according to user-selected application templates, or forwarded to 3rd party databases. Watercheck loggers are managed directly from password protected web-consoles.

LINK-GPRS Ultra Low-power Wireless Logger

Hardware Features

- Low-power, up to 5-years battery life depending on mode & battery pack

- Standard SMA antenna connectors

- Unlicensed wireless system uses 433MHZ, 868MHZ, 915Mhz or 916Mhz.

- Terminal block connections

Product Code	Wireless Mesh
LINK-433	433 Mhz, 500mW
LINK-868	868 Mhz, 500mW
LINK-915	915 Mhz, 500mW
LINK-916	916 Mhz, 500mW

Web-based Graphs & Reports

Meter & sensor data is logged into memory and then automatically transfered to www.watercheck.co.nz website on a user-selected schedule (typically hourly to daily). Browse historical data with an intuitive web-interface. Select from a range of brandable application web templates.

Screenshot: Rate & Totalised Consumption

Application Web Templates

- Water Meter Monitoring — Outpost LiveWater

- Tank Level, Sewer Level Monitoring — Outpost LiveLevel

- Soil Moisture, Irrigation Monitoring — Outpost LiveSoil

- Power Monitoring — Outpost LivePower

- Wind Energy Monitoring — Outpost LiveWind

Contact Watercheck for a customised template.

Web-based Logger Config

Configure all logger settings from the web. No programming cables required allowing true "Plug & Play" installation.

Website Config Features

- Channel Logging Frequency

- Watercheck web-update interval

- Graph & Report template selection

- Data calibrations (offsets & multipliers)

- Timezone, Debug setting

Scalable Group & User Management

Create groups of remote loggers and assign users & passwords with sophisticated user management features. Setup alarms and monitor remote logger performance.

Screenshot: Manage remote loggers from web-console

Web Management Features

- Monitor remote logger signal strength conditions
- Monitor battery voltage
- Swap loggers between sites while preserving site data & settings
- Manage site details including, SIte Name, Site ID, addresses, photographs & notes

Hosted Data Center

Data is stored in dedicated servers Data is RAID protected with daily backups. Servers are snap-shot mirrored on a schedule and hot-swappable.

Technical Specifications

Analog Inputs

Channels	3 single-ended 0-20mA shared with digital
Accuracy	0.1% uncalibrated 0.02% calibrated
Electrical	100 Ohms Impedance Protected to 30V

Digital Inputs

Channels	2 x Pulse Counter with optional debounce
Electrical	Internal Pull-up to 3.3V Protected to 30V
Frequency	Max 1kHz or Max 5Hz (Debounced)

Datalogger

Flash Memory Datapoints	60,000

RS-232/RS-485/SDI-12

RS-232 (Selectable)	3-Wire
RS-485 (Selectable)	Half-Duplex
SDI-12 (Selectable)	

Power

Power Input	5-36V DC
Active Mode Current (GPRS ON)	200mA @ 12V
Idle Mode Current (GPRS OFF)	40mA @ 12V
Power-down Sleep Current	60uA

GPRS

Power Input	900/1800/850/1900Mhz
Antenna	SMA

Physical

Size	10.1cm x 6.9cm x 2.5cm
Weight	150g (5.25 oz)
Operating Temperature	-40 C to 85 C