

## EVO™

### Industrial Low-Power GPRS Logger

The EVO-GPRS is a rugged 6-Channel data logger that connects meters & sensors directly to the web using GPRS or HSDPA. 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.



EVO-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
- Global GPRS/3G communications (coverage as per GSM/3G)
- Terminal block connections

Product Code	Cellular	Wireless Mesh
EVO-2G-STD	GPRS Quad Band	No
EVO-2G-COR868	GPRS Quad Band	868 Mhz 500mW
EVO-3G-STD	HSDPA	No
EVO-3G-COR868	HSDPA	868 Mhz 500mW

#### Web-based Graphs & Reports

Meter & sensor data is logged into memory and then automatically transferred to [www.watercheck.co.nz](http://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.



Name	Version	Signal	Battery	Events	Alarms	Cooling	Logins
ad80001 - ADPA 100001	49.1	90.32%	10.90 V	Events	Alarm List	Cooling Sensors	Logins
ad80002 - ADPA 100002	49.1	90.32%	10.71 V	Events	Alarm List	Cooling Sensors	Logins
ad80003 - Campell Field Defense 110003	49.3	90.32%	10.90 V	Events	Alarm List	Cooling Sensors	Logins
ad80004 - Hyster 100004	49.2	90.32%	10.71 V	Events	Alarm List	Cooling Sensors	Logins
ad80005 - Hyster 100005	49.2	90.32%	10.60 V	Events	Alarm List	Cooling Sensors	Logins
ad80006 - Hyster 100006	49.2	90.32%	10.6 V	Events	Alarm List	Cooling Sensors	Logins
ad80007 - Hyster 100007	49.2	90.32%	10.60 V	Events	Alarm List	Cooling Sensors	Logins
ad80008 - Hyster 100008	49.2	90.32%	10.60 V	Events	Alarm List	Cooling Sensors	Logins
ad80009 - Hyster 100009	49.2	90.32%	10.60 V	Events	Alarm List	Cooling Sensors	Logins
ad80010 - Hyster 100010	49.2	90.32%	10.60 V	Events	Alarm List	Cooling Sensors	Logins
ad80011 - Hyster 100011	49.2	90.32%	10.60 V	Events	Alarm List	Cooling Sensors	Logins
ad80012 - Hyster 100012	49.2	90.32%	10.60 V	Events	Alarm List	Cooling Sensors	Logins
ad80013 - Hyster 100013	49.2	90.32%	10.60 V	Events	Alarm List	Cooling Sensors	Logins
ad80014 - Hyster 100014	49.2	90.32%	10.60 V	Events	Alarm List	Cooling Sensors	Logins
ad80015 - Hyster 100015	49.2	90.32%	10.60 V	Events	Alarm List	Cooling Sensors	Logins
ad80016 - Hyster 100016	49.2	90.32%	10.60 V	Events	Alarm List	Cooling Sensors	Logins
ad80017 - Hyster 100017	49.2	90.32%	10.60 V	Events	Alarm List	Cooling Sensors	Logins
ad80018 - Hyster 100018	49.2	90.32%	10.60 V	Events	Alarm List	Cooling Sensors	Logins
ad80019 - Hyster 100019	49.2	90.32%	10.60 V	Events	Alarm List	Cooling Sensors	Logins
ad80020 - Hyster 100020	49.2	90.32%	10.60 V	Events	Alarm List	Cooling Sensors	Logins

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