iLevel Remote Level Monitoring System

- **Autonomous world-wide operation**
- **10 m Ultrasonic range**
- **1 cm measurement accuracy**
- **Data delivered by iridium satellite**
  - **Water Level**
  - **Standard deviation**
  - **Significant surface wave height**
  - **SOLAR power supply voltage level**
- **Secure custom WEB site**
- **User configurable alarm notification**
  - **E-mail**
  - **Short Message Service (SMS)**
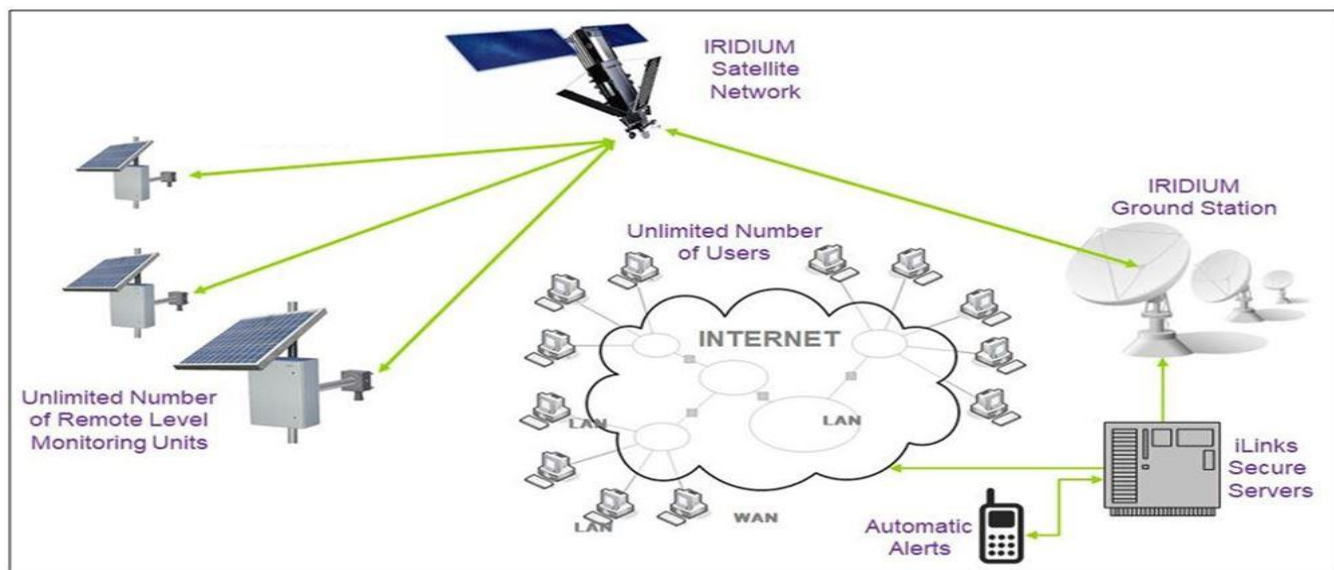- **Rugged waterproof design**

iLevel is an autonomous level monitoring system which delivers real-time level measurements from anywhere in world via the Iridium low earth orbiting (LEO) satellite network. The system is, water proof, contactless, maintenance free and can be powered by mains power or 12 volts 10 watts solar panel.

iLevel incorporates a powerful microprocessor and an iridium satellite transceiver making it ideal for remote environmentally challenging locations.

 iLevel employs real-time onboard data processing and compression routines which minimise satellite communications bandwidth and costs .

iLevel offers user configurable alarm levels which automatically alert the user to critical situations such as level too high, level too low, rapidly changing level and power supply voltage level. Alerts can be sent to the user by way of e-mail and/or cellular short message system (SMS).

iLevel secure WEB site offers users the flexibility to configure their **iLevel** systems and customise their data reports. **iLevel** WEB interface employs a Google Earth application program interface (API) which offers a familiar and flexible user interface. Users data can be downloaded in a number of industry standard formats for offline analysis.

iLevel Specifications

REMOTE WATER LEVEL MONITOR SPECIFICATIONS	
SONAR MEASUREMENT	
Type	High Power Accoustic Pulse
Frequency	42 KHz
Beam	Precise Narrow Beam
Operating Range	1 to 10 meters (3 to 35 feet)
Calibration	Real Time Auto Calibration
Accuracy	Better than 1 cm (0.4 inch)
Measurement Frequency	10Hz
COMMUNICATIONS	iRidium 9602 SBD Satellite MODEM
INTERFACE PROTOCOLS	TCP/IP, UDP/IP, DHCP, SMTP, SMS
PROCESSOR	
32 Bit ARM processor	AT91SAM3X8E
Digital I/O Pins	54 (of which 12 provide PWM output)
Analog Input Pins	12
Analog Outputs Pins	2 (DAC)
Flash Memory for user applications	1 Mb
SRAM:	96 Kb
Clock Speed	84 MHz
ELECTRICAL	
Voltage	9 to 35 VDC
Power	5.0 Watts
ENVIRONMENTAL	
Operating Temperature	-20°C to +60°C
Storage Temperature	-40°C to +90°C
Protection Class	IP67
Extremely Low Temperatures	Optional Internal Heater
PHYSICAL	
Construction	Rugged PVC
Dimensions	65 mm (H), 122 mm (W), 122 mm (L)
Weight	325 g
STANDARDS & APPROVALS	FCC, Industry Canada, RoHS, PTCRB
	Class 1 Div2, Carrier Specific Approvals

For more specific information on the iLevel or to arrange a system demonstration you can call us on **+1 281 665 3954** or e-mail at **info@ilinks.us**

MADE IN **AMERICA** BY **iLinks** GEOSOLUTIONS