

DIGITAL GROUND WATER LEVEL RECORDER

NS-GWLR-01



DESIRE TO MONITOR GROUND WATER LEVEL?



Continuous data logging system using USB. Compactly designed integration for making more sophisticated handling. We are also providing solar based OEM instrument for remote usage.



CE Compliance.



Wide Temperature
Range.



Compact Design



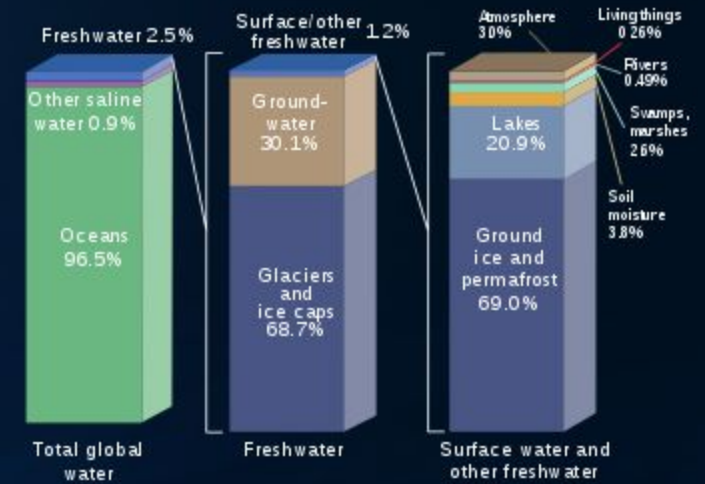
Variety of Pressure Ports &
Electrical Configurations.

We Believe in Precision

APPLICATIONS

Range (Psi)	Range (Bar)
0 to 050	0 to 3.5
0 to 100	0 to 007
0 to 200	0 to 014
0 to 300	0 to 020
0 to 500	0 to 035

Where is Earth's Water?



This series of piezometer is suitable for measurement of different mediums like liquid or gas pressure, even for difficult media such as Engineering & Environmental contaminated water, stream and mild corrosive fluids.



Industrial Water Level Monitoring.



Agriculture Bores.



Ground Water Elevations.



Wells.

Where Technology Make Sense

Do You Want To **TRANSFER DATA?**



The things around us are becoming smarter, intelligent, seamlessly connected and interacting with each other.

Our DL-A1 features a modular and scalable platform architecture, which makes it highly flexible. Designed to run on both on premise and cloud servers, it guarantees secure and reliable data transfer and supports many device-s and custom protocols.



GPRS[®]



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Composition of our **GROUND WATER RECORDER**

- 1) The sensor obtains the actual water level measurement. An optical sensor (or encoder—a measurement device that converts mechanical motion into electronic signals) , while a pressure sensor uses water pressure changes to get the data. Typically, older recorders use encoders, and newer ones are outfitted with pressure sensors/transducers.
- 2) The logger (or data logger) receives the data from the sensor and stores the measurements. This is the main unit that controls the system.
- 3) The transmitter receives data from the logger at scheduled intervals and transmits the information to a receiving site. Server recorders use the General Packet Radio Services (GPRS) system to relay data.
- 4) The antenna sends the signal with a moderate-speed data transfer, by using unused time division multiple access (TDMA) channels in, for example, through the GSM system.
- 5) The power supply of 12 V , 1 Amp DC is supplied to the device as per the input range of the sensor.
- 6) The shelter protects the recorder from weather, animals, and most human-caused damage.

Where Technology Make Sense

DATA LOGGER

save & secure



24 HOUR USAGE



SUNLIGHT
READABLE



LED BACKLIGHT
TECHNOLOGY



WEATHER PROOF



VANDAL PROOF



PLUG N PLAY
MEDIA PLAYER

Right at the core of GWLR is the DL-A1 field data logger. The DL-A1 is easy to use, reliable and preferably suited for remote site applications

the control unit/Data Logger is comprised of the major system components such as mother-board, Inbuilt Memory facility (NAND Flash), Battery Circuitry, Display, Function keys, etc... It's of robust construction to avoid damages and stands fist from dust and water. It's thoroughly made up of high class plastic with a grade of IP 65 and other compliances

An expansion peripheral can enable multiple sensors to share the same data-logger connection, which can significantly expand the number and types of sensors your data-logger can measure.



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For Better Understanding DATA SHEET



PRESSURE TRANSDUCER

This type of sensor is lowered into the well on a reinforced cable and submerged below the water. Once in place the initial water pressure reading is synced with the current water level. The unit then monitors the water pressure for changes, and the pressure difference is converted to a change in water level. The entire unit is hermetically sealed to prevent any moisture from getting into the instruments circuitry.

PARAMETERS	MIN	MAX	UNITS	NOTES
Accuracy (combined non linearity, hysteresis, and repeatability)	-0.25	0.25	%F.S.	BPSL
Isolation, Body to any Lead	100		MΩ	@500VDC
Dielectric Strength	2		mA	@500VAC, 1min
Long Term Stability (1 year)	-0.25	0.25	%F.S.	
Compensated Temperature	-20	+85	°C	
Operating Temperature	-40	+125	°C	Except cable 105°C max
Storage Temperature	-40	+125	°C	Except cable 105°C max
Current Consumption	5		mA	Voltage Output
Wetted Material	17-4PH or 316L Stainless Steel Port, 316L Stainless Steel Snubber			
Vibration	±20g, MIL-STD-810C, Procedure 514.2, Fig 514.2-2, Curve L			

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