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E2E Innovative Solutions

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Digital Ground Water Level Recorder



Ground water is among the Nation's most precious natural resources. Measurements of water levels in wells provide the most fundamental indicator of the status of this resource and are critical to meaningful evaluations of the quantity and quality of ground water and its interaction with surface water.

**Easy to Install and Calibrate
Simple, Accurate and Reliable**

E2E Innovative Solutions made E2E-GWLR-AT-01, Digital Ground Water Level Recorder Piezometer, is a data logger and submersible pressure transducer combination designed for remote monitoring and recording of water level or pore pressure data. The 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.



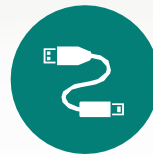
Compactly Designed



High Accuracy



Battery Operated



USB Communication



Digital Ground Water Level Recorder

Application

- Ground water level monitoring
- Industrial water level monitoring
- Agriculture bores wells
- CGWB compliance fulfillment

Features

- Atmospheric Pressure sensing and logging.
- Under ground water temperature monitoring and logging.
- Continuous data logging system using USB.
- Short circuit protection on output.
- ± 0.25 % accuracy of the final output.
- 1.0 % total error band.
- Compactly designed integration for making more sophisticated handling.
- Working temperature – Console: -20 -70 ° C ; sensor : -40 to 105 ° C.
- Fully operational for 4 years on only battery that we provide within system, no additional power requirement

✓ RUGGED

Designed in enforced housing material

✓ PLUG 'N' PLAY

Easy Installation

✓ FLEXIBLE

Extremely wide measuring
range from 0 to 200m

✓ CABLES STRENGTH

Insulation and constructed for
600kg tensile strength

✓ PROGRAMMABLE

The transmitters are delivered with a predefine
but reprogrammable measuring range





Digital Ground Water Level Recorder

Technical Specifications

Parameters	Details
Input	Pressure sensor
Resolution	18 bits. (Better than 1 mm for 70 m WC sensor)
Temperature measurement range	-20° to +70°C with 0.1°C resolution
Logging interval	5 seconds to 168 hours
Memory capacity	8 MB Flash RAM. Can store 3,145,728 data points
Data output format	CSV text file. Can be easily imported in many third party applications like Microsoft® Excel
Communication port	One RS-485 . Interface cable for connecting to USB 2.0 port supplied as standard
Operating temperature range	-30° to 70°C
Power supply boxed version (BX)	2 x D size 3.6 V/19 Ah Lithium cells 2 x D size 1.5 V Alkaline high power cells 12 V SMF battery chargeable from solar panels or AC mains
Power supply (BH)	2 x D size 3.6 V/19 Ah Lithium cells. Battery life > 5 years for 4 measurement/day and one transmission/day
Housing	Box version: Weather proof enclosure Cylindrical version: Corrosion resistant stainless steel, AISI grade 316L.
Humidity	100 %
Modem (In telemetry option)	Quad Band GSM/GPRS/ EDGE, 850/800/1800/1900 MHz
Antenna (In telemetry option)	Built-in or separate mounted antenna available in boxed version