

Droplet

GA –DPLT Model V.1.01

Wireless Water Level Monitoring System

120 m Water Head Capacity*
*(please enquire for sensors with different capacities)

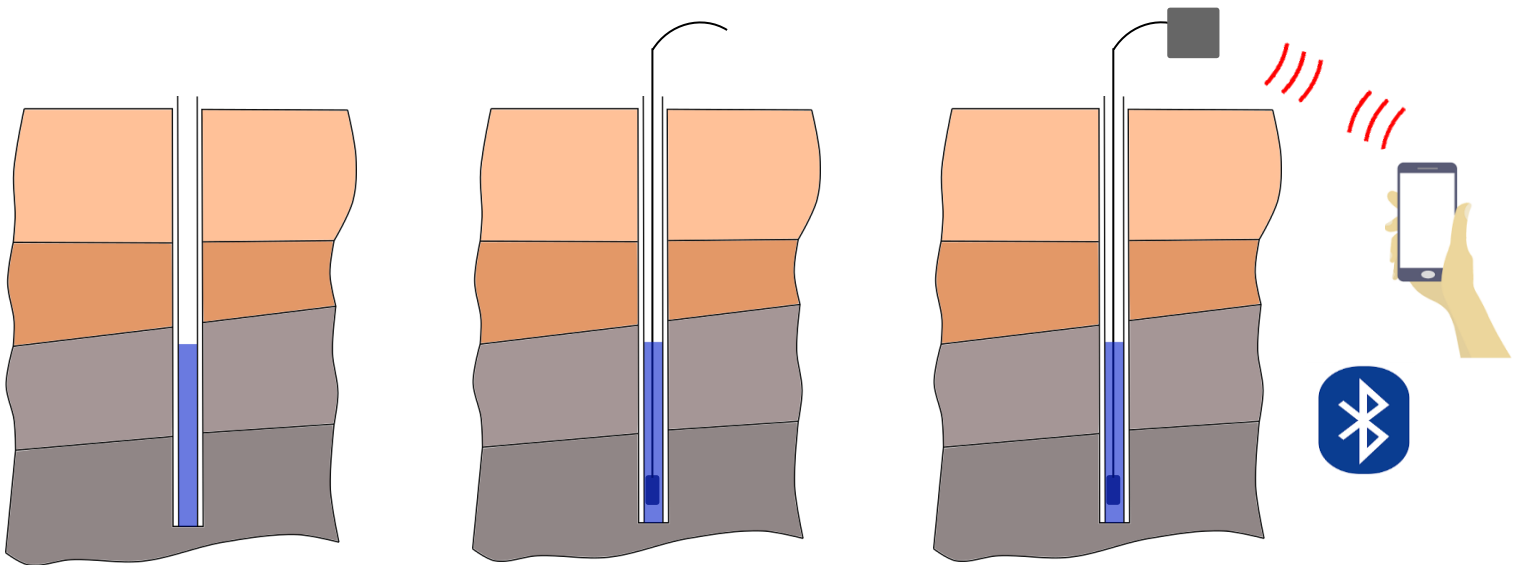


OVERVIEW

Droplet can be used to monitor water levels in boreholes. It is a practical, affordable, accurate and precise meter. It is an easier to use alternative to currently available ground water table monitoring systems which require the use of a scaled tape meter.

Droplet is able to measure the water level promptly, and moreover the same data acquisition box can be conveniently used at several borehole locations. Droplet's affordable price and flexibility allows for it to be left in the borehole for as long as you need acquiring data constantly.

Droplet provides an accurate and precise estimation for the ground water table elevation as long as the elevation of the borehole bottom is known. The barometric pressure correction is intrinsically made by the app. On the basis of Bluetooth connection protocols, data streaming to any smart device has never been as easy as it is with Droplet.



Easy Setup and Use

Droplet is lowered into a cased borehole with a known depth and it is attached to the portable data acquisition unit that has a 9V battery; the system is turned on and coupled with your android based smartphone or tablet with a Bluetooth connection through the freely available GeoAnts Droplet app. After this easy setup, you can sit back and monitor your groundwater table data streaming in real-time through your device.

FEATURES

- Easily monitor your groundwater levels.
- Bluetooth Enabled Power Supply Unit (9V DC Input).
- Custom Android based mobile app for instant display of water level (requires Android v7 Nougat or higher).
- Carbon and Stainless-Steel Alloy Sensor with Specially Moulded Plastic Enclosure Fitted with Epoxy Bonding.
- Mud and Dust Proof, Easily Cleanable, No-clogging problems.
- Coupled with digital barometer readings to compensate for atmospheric pressure corrections.

Technical Specifications

Measurement Range	0-120 m H ₂ O (0-1.2 MPa).
Overloading Tolerance	200% of Full Scale Output.
Working Temperature	0-85 °C (Excluding cable components).
Measurement Error	-/+ 1.5% of Full-Scale Output.
Analog / Digital Conversion Rate	10 bit.
Supply Voltage	9 V DC (Battery).
Bluetooth Communications	Bluetooth Class 2.0
Barometric Compensation	Digital Barometer with 0.02 to 0.06 hPa resolution, 300 – 1100 hPa measurement range
Software	Requires Android based mobile device (not included) running a minimum of Android v7 Nougat or higher.
Material	Carbon and Stainless-Steel Alloy Sensor with Specially Moulded Plastic Enclosure Fitted with Epoxy Bonding Range.
Dimensions	φ33 mm outer diameter, 91 mm length for Droplet. 61 x 82 x 154 mm for the portable A/D device
Signal Cable	Standard PVC coated 4x0.25 mm ² shielded signal cable, please contact for custom orders

Application

- Water level monitoring.
- Groundwater characterization.
- Measurement of Fluid Pressure.

Ordering Details

- Comes with standard 120 m water head measurement capacity. Please contact in case of a modified design request.
- Please indicate required cable length while placing your order.
- The device is not suitable for permanent placement in corrosive groundwater conditions.

