



Ground Water level-Piezo Meter

Ground Water Level-PIEZO Meter – Model No: GWL-VE300

Introduction:

VE300 Ground Water Level Piezo meter is used to measure or monitor the water level in the Bore wells, Railway bridges and many more as per the latest Centre for Ground Water Studies (CGWS) Norms.

Piezo meter has telemetric system to make the data available on cloud base servers and CGWS central server also

The GWL-VE300 Piezo meter series of submersible liquid level transmitters use the diffused silicon piezoresistive pressure sensor with stainless steel isolation membrane as the signal measuring element to accurately measure the hydrostatic pressure that is proportional to the depth of the liquid level. The transmitter has an RS-485 communication interface that supports the standard MODBUS-RTU protocol. The communication address and serial port attributes can be set, and the communication distance is up to 2000 meters, which can realize remote monitoring.

The transmitter can be directly put into the liquid to measure the height of the liquid level from the end of the transmitter to the liquid level, with high accuracy and easy to use; after long-term aging and stability assessment, the performance is stable and reliable; it can be widely used in urban water supply and drainage, Sewage treatment, rivers and reservoirs and other fields.

Working Principle

GWL VE300 Series Piezo meter liquid level transmitter is put into the liquid.

The water pressure at the position of the transmitter acts on the diffused silicon sensor through the pilot hole. The liquid level signal can be obtained by measuring the pressure. After the sensor samples the liquid level signal, it is transported first.



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Features:

- Anti-reverse connection, electrostatic protection, wide voltage power supply: DC7~30V
- Communication method: RS-485
- Communication protocol: standard MODBUS-RTU protocol
- Communication distance: up to 2000 meters
- Stable and reliable: industrial grade single chip microcomputer
- Anti-interference performance: anti-vibration impact, anti-radio frequency interference
- The structure is compact, the probe is put into the measurement mode, and the installation is simple and convenient.
- Cloud base server to monitor the data.

Technical Specifications:

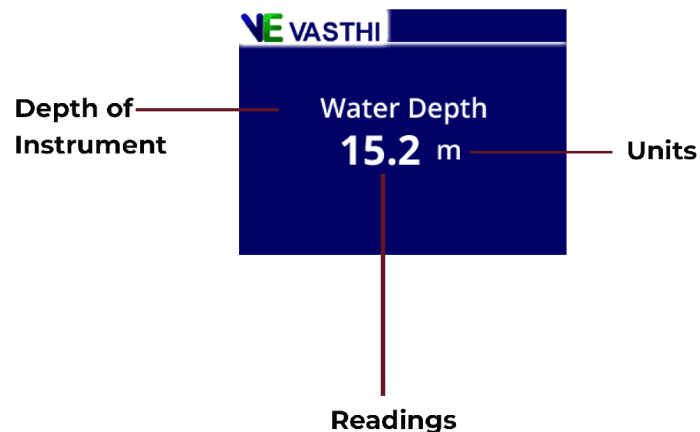
Project	Index			Unit
	low	middle	high	
Measuring medium	Liquid (no corrosion to stainless steel shell)			
Liquid level range	0 – 3,5,10,(can be customised)			m
output signal	RS-485			
Power supply	12	24	32	V
Accuracy class	-0.5		0.5	%FS
Overload capacity	150			%FS
Long term stability	-0.05		0.05	%FS/年
Zero temperature coefficient	-0.01		0.01	%FS/°C
Full temperature coefficient	-0.015		0.015	%FS/°C
Degree of protection	IP68			

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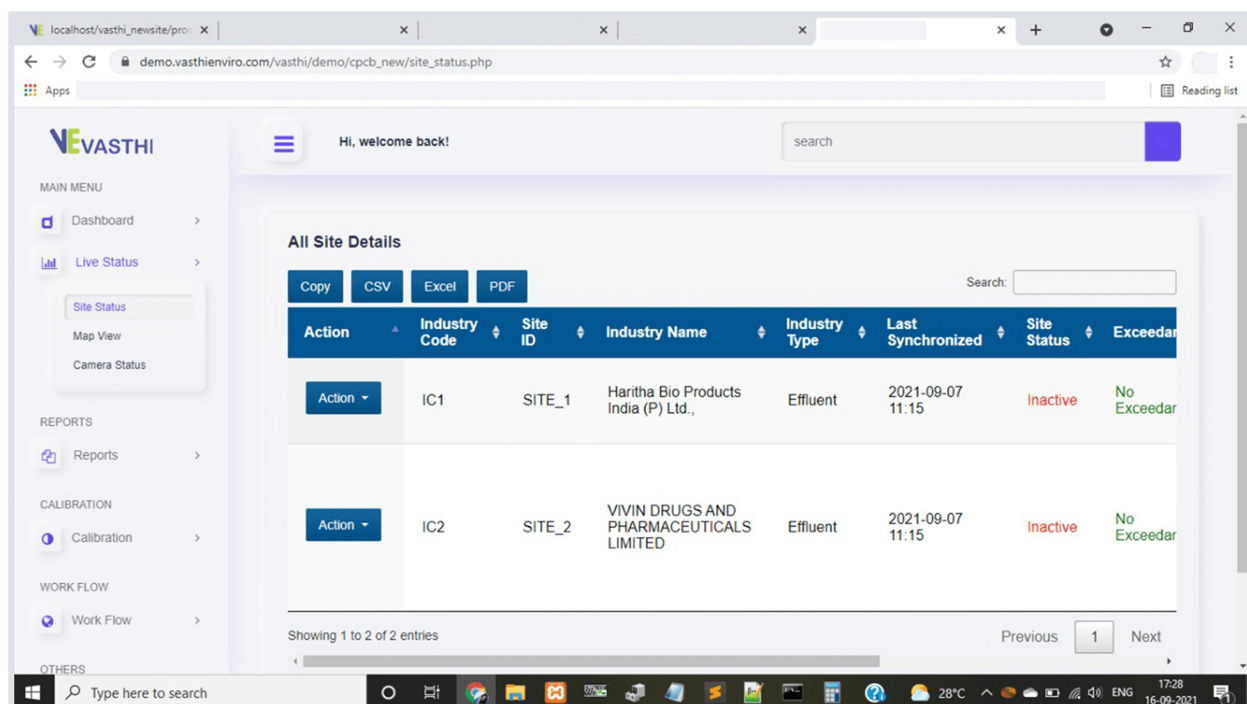
Technical Specifications:

Work temperature	-10	80	°C
Storage temperature	-40	80	°C
Interface size	M20*1.5		mm
Shell material	stainless steel		
Sensor housing and diaphragm	stainless steel		
Cable	polyurethane		

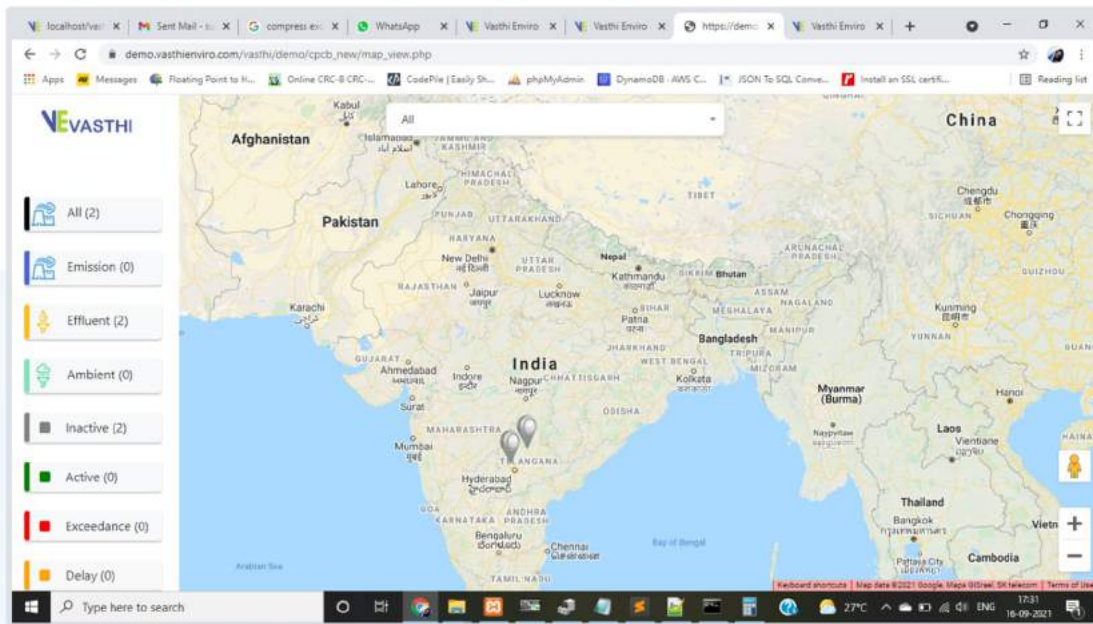
Reading Screen



Live Status Screen



Digital Ground Level Water Recorder



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