

VenAqua™



About Us

Wegot Utility Solutions is a high-technology startup focused on providing metering and management of utilities such as water, electricity and gas, with emphasis on conservation and sustainability.

We provide solutions to solve the problem of metering water in multi-inlet type homes in large apartment complexes. Our product, VenAqua, was conceived, designed and developed as a low cost solution and is a result of 2 years of intense research, constant trials and development.

* VenAqua system is a patent pending product.

* VenAqua is a registered trademark of Wegot Utility Solutions Private Limited.

VenAqua™ System Explained:

- VenAqua is a system designed for a typical multiple inlet plumbing layout.
- Sensors will be mounted in the shaft area at the inlet of every bathroom & kitchen.
- Maximum of 4 sensors will be individually connected to a Slave Unit box which is mounted on shaft area.
- All Slave Units are then looped through a single 4 core cable in a serial fashion & terminated at the Master panel.
- Master panel supplies the required low power (24VDC) to the Slave Boxes & in turn to the sensors.
- The 4 core cable carries both the power & data signals.
- Each sensor is identified by a unique ID and each home will be configured in the master panel to its set of sensors.
- Master unit collates all the data and gives a total sum of water usage for every home.
- Master panel is located either in common area or in the facility manager's room.
- Master panel houses all master display units, with each master display unit capable of storing & displaying water usage data for 25 homes.
- Battery backup is provided to the Master panel.
- BMS / PC software/ Internet cloud based connectivity is provided from Master Panel.

About Our Manufacturing Partner

Denvik Technology designs and manufactures High Quality, Feature Rich & Custom built Embedded Control Systems & Instrumentation Products in Indian and European Market.

DENVIK develops and provides core competencies in 8-bit and ARM based microcontrollers, mixed signal design, and popular industrial communication protocols. The capabilities of DENVIK encompass the complete product lifecycle, which includes concept development, requirement analysis, design & development, fabrication, testing, auditing and product sustenance. With these capabilities we deliver complete product engineering and manufacturing solutions that are customized to the specific requirements of our clients.



Why do you need a Water Meter?

Most developed countries around the world have some kind of meters set up to calculate their water consumption.

In our country though, our water payments are static. An arbitrary amount is levied regardless of our actual consumption, we pay it. As a result, how much water we actually use and how much we pay for it might bear no co-relation whatsoever.

As a result of this arbitrary nature of our water charge, a family of one adult and one child might pay the same as a family of four with two adults and two teenagers. How unfair is that!

But no longer would you be penalised for someone else's excess usage. Introducing the VenAqua sub meter, which can measure your usage of water and bill you accordingly. So you never have you pay a single paisa more, ever again!

Energy and Atmosphere (EA) is one of the LEED environmental categories. A Credit 5 awards up to three points for measurement and verification (M&V) of energy consumption to make sure the actual consumption meets proposed consumption guidelines established during the LEED certification process.

Water submetering encourages users to report leaks so you can take care of small problems before they become major repairs. Submetering enables users to be directly responsible for their own energy and water consumption leading to a "greener" property.

Studies prove that metering reduces consumption by 20%



Warranty

2 year warranty + 5 years extended



Alarms

Detect leaks and open pipes.



USB

USB connectivity for billing software



Report

View Excel report from SD card

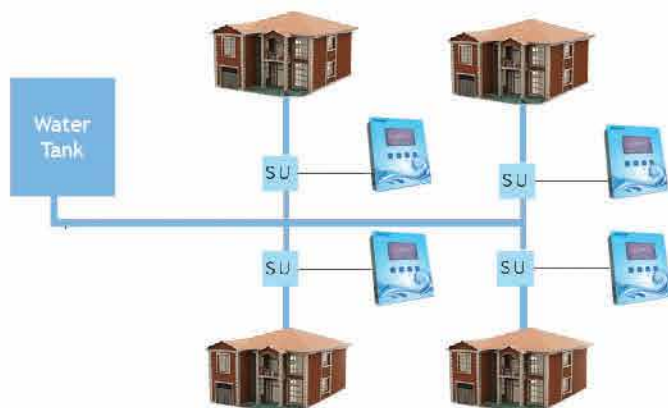
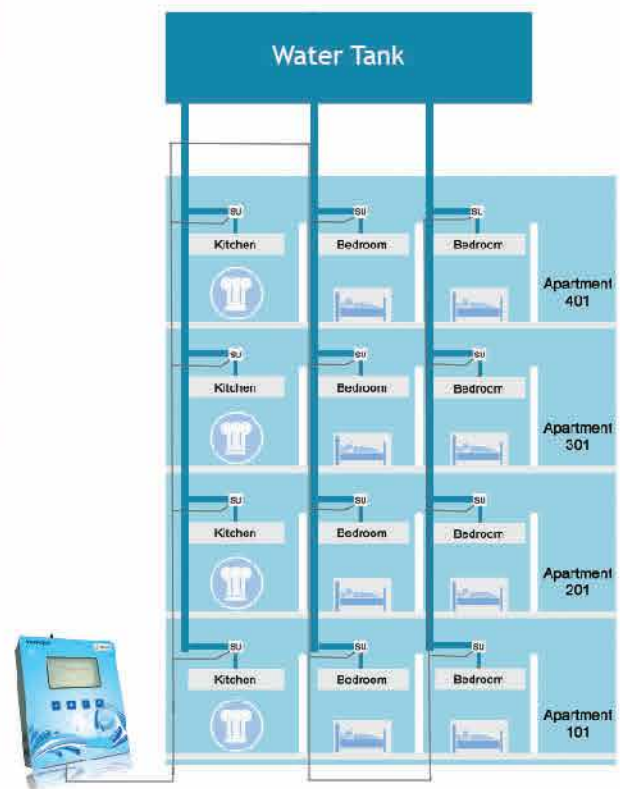
Technical Specifications

- Central power supply unit with Battery backup included (12 Ah/45 Ah).
- Works for supply voltage from 90VAC to 230VAC
- Maximum power consumption for VenAqua master & 30 slaves is less than 15W
- Surge Voltage & Short Circuit Protection
- Product tested to meet EMC norms.
- Sensor Option: 1-30 LPM & 2-60 LPM depending on pipe size and flow rate.
- Standard BSP thread of 1/2" & 3/4" coupling suitable for all types of pipe material.
- Sensor withstands maximum water pressure of 13 bar
- Sensor accuracy option: >98% & >95%
- IP 65 (Rain water & Dust proof)
- Works at maximum 60deg Celcius

VenAqua™ for Apartments

In apartments where centralized water supply is provided, submetering can be used as a fair system of charging customers according to only their consumption.

Each apartment is fitted with sensing units at the inlet pipes of Kitchens & bathrooms and all these units are in turn connected to the central metering unit.



VenAqua™ for Villas

In high end villa type gated community, each of the Villa will be fitted with a VenAqua unit so that each villa owner can track his/her water consumption and they can be billed accordingly. Providing such metering can be an additional selling point for promoters.



Slave Unit



Sensor

Unique Features of VenAqua™

Leak detection: The system monitors the flow rate continuously, if it is found that there is always a low value of a constant flow on the line for an extended period of time, the system interprets it as a possible leak in the pipe and raises an alarm. The user can take appropriate action to stop the leak.

Burst Pipe detection: If the system detects a constant high flow for an extended period of time, it means that a pipe has burst or the user has forgotten to turn "off" his tap. The system then raises a burst pipe alarm.

Over temperature alarm & cut-off: If the system detects the temperature of water to be higher than a set limit, it at once raises an alarm. The user can take this alarm input and turn "Off" the hot water supply in the particular line.





For further details about the product including pricing & Ordering,
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