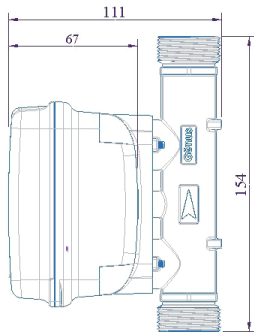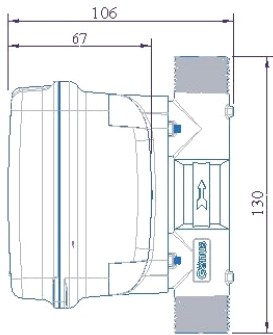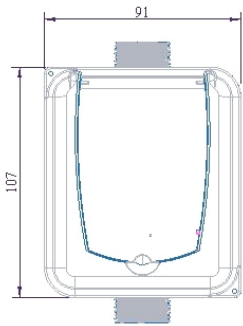# Genus
energizing lives

Salil™
Ultrasonic Water Meter

Genus offers Static Ultrasonic Smart Water Meter for accurate measurement and recording of volume of water used in domestic and commercial applications. It has multiple advantages over traditional mechanical type of meters.

Combined with various options of communication, the same meter functions as smart water meter for remote reading purpose (AMR/AMI).

LoRa Technology

Genus RF

Bluetooth

NB-IoT

Size : DN15 & DN20

(dimensional drawings: 91, 107, 106, 67, 130, 111, 67, 154)

Features & Benefits

- Ultrasonic Smart Water Meter
- LoRa / Bluetooth / Genus RF / NB-IoT for remote communication
- Enabled with water leakage detection.
- Reverse detection
- No measurement of air
- Mounting in any installation position
- Battery life upto 15 years (1 read a day)
- Suitable for outdoor installation
- FOTA Compatible

- User friendly display of parameters
- Alarm notification
- No magnetic influence
- Data logger for consumption values
- IP protection as IP68
- Optical port for local reading
- Notification for abnormality and tampers
- Brass Body
- Dual Check Valve
- Interval configuration for 15,30 & 60 mins

Communication Technology

Smart water meter is able to communicate with remote communication devices on various technologies as mentioned below
- LoRa (AMI)
- With BLE (AMR/Prepaid)
- With Genus RF
- NB-IoT (support of Band 8 and Band 28)
- Smart Water Meter has option of use in Pre-paid mode.
- Support for LWM2M protocol

Data Monitoring & Logging Facility via HES (Head End System)

The meter has memory storage for keeping records intended for analysis of various types of data analysis and monitoring purpose. This data can be downloaded to local/remote application using its communication capability and can have further analysis/reporting on HES.
- Billing history
- Load survey
- Tamper logging
- Low battery indication

This HES application can further be integrated with billing system of utility using the international interfacing standards like web service /API's

STANDARDS
ISO 4064
OMIL R49
MID ¶
RCM ¶
WATERMARK ¶

Technical Data

Model	GWU001		Environmental	
Size	DN15 & DN 20			
Metrology	ISO 4064		Pressure	16 Bar
Class	Class 2		Pressure Loss	0.40 Bar
Communication	LoRa / Bluetooth /Genus RF / NB-IoT based communication		Operating Temperature	upto 50° C
			Transport & Storage Temperature Range	upto 70° C
Flow Rate	DN 15	DN 20	Temperature Class	T50
			Humidity	0 to 85%
Permanent Flow Rate Q3	2500 l/h (2.5 m3/h)	4000 l/h (4 m3/h)	Ratio	R160 / R250 / R400
Maximum Flow Rate Q4	3125 l/h (3.15 m3/h)	5000 l/h (5 m3/h)	Battery Capacity	4000 / 8000 mAh
Minimum Flow Rate Q1	6.25 l/h	10 l/h	Battery Life	15 Years
Transitional Flow Rate Q2	10 l/h	16 l/h	Protection Class	IP68
Length (mm)	130,165	130,154,165,190		

¶ under process

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