



Smart Gas Meter (SKG16)

Genus Smart Gas Meter (SKG16) offers high level of functionality, low power consumption, reliability and high flexibility with customized solutions. All the features of a smart postpaid meter that are required to fulfil customer requirements are available in SKG16

Meter Interface Unit IntelliLog (g-Setu)

MIU i.e, the smart AMR-RF “g-Setu” is a gas meter retrofitting device that uses LoRaWAN communication and RF walk-by technology to collect the meter reading. It then communicates the gas consumption data to a software platform (HES). Further consumer mobile app can be provided for the consumer to view consumption data on the mobile.



Features :

- Accurate and synchronized operation of MIU device with gas meter
- Optical interface for local maintenance
- IP65 ingress protection rating (IEC 60529)
- Digital LCD display with the function specific symbols
- Storage of Historic gas consumption data, feature to detect gas consumption above or below threshold values
- ATEX, PESO, WPC and IEC 60079 Certification

Smart functionalities:

- Hybrid communication technology (LoRaWAN and RF walk-by)
- Low power due to energy-conserving operations
- G-SETU provides long-range communication between meters and gateways using LoRaWAN communication
- Alarm for Magnet tamper, Device Removal, low battery
- HES with yearly, Half-yearly, Quarterly, Monthly data analytics with variance analysis, exception reports



Product Variant:



Gas Meter (G1.6)



Smart Post Paid Gas Meters with MIU



IntelliLog(g-Setu) (only MIU device)

Technical Specifications:

Service	Natural Gas
Conformity	EN 1359:2017
Model No.	SKG16
Installation	Suitable for outdoor/Indoor Installation
Mounting '	Wall mounted
Flow/Service	Qmax - 2.5m ³ /hr, Qmin - 0.016 m ³ /hr
Accuracy	Class 1.5 [Qmin-0.1Qmax : ± 3.0%, 0.1Qmax-Qmax : ± 1.5%]
Rangeability	150:1
Cyclic volume	1.2 dm ³
Normal working pressure	15-100 mbar
Max. working pressure	500 mbar
Design pressure	750 mbar
Max. Allowable Pressure Drop	2 mbar
Density	0.73 kg/sm ³
Ambient temperature	-25 ⁰ C to +55 ⁰ C
Flow direction	1) Left side inlet & Right side outlet 2) Right side inlet & Left side outlet
End connections	3/4" NPT
Max. Index reading	99999.999
Ingress protection	IP 65
Pulse output type	Magnetic
Diaphragm	Polyester fabric coated with rubber on either side of equipment for an endurance life cycle of 80,000 cum (As per EN 1359:2017)
Centre to centre distance between inlet & outlet connections	110 ± 0.25 mm
Sealing arrangement	With two plastic seal on front side of index
Frequency carrier	Band 865-868 MHz
Communication mode	Optical communication for configuration, RF walk-by LoRaWAN
Conformity	Equipment type approval (ETA) from WPC
Input pulse characteristics	Diaphragm Meter: Magnetic Type
Operating temperature	0°C to 45°C Design 60°C
Ingress protection AMR	IP 65
Alarm	Low Battery, Communication Failure, MIU Device removal, No consumption, Unread meter, Volume below/above pre-decided values, unforeseen consumption, Magnetic tamper
MIU Memory capacity	up to 6 month
Power Supply	*Self-powered by inbuilt lithium battery MIU Battery Life: 10 Years*
Battery Type	3.6V - Lithium thionyl Chloride
Battery Life Cycle	10 Years with normal operation
Max. Operating Temperature	T4 <= 135°C as per IEC 60079

*Due to continuous technology upgradation, specifications are subject to change without prior notice.
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