



LoRa Enabled Gas Meter AMR

Model: LoRa

Technology: LoRaWAN[®] sensor based

Communication: Wireless

Datasheet 1.0

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1. Brief Description

A device which is used to monitor the amount of gas being used. In India, mostly conventional mechanical reading meters are being used. A person needs to go to every meter to note down the reading and then vender prepares the bill. We (SSTPL) built retrofit LoRa enabled Gas Meter AMR and attached on gas meters to get automatic meter readings. This Gas meter AMR send the data to server via LoRaWAN Gateway. This data sending can be on daily basis or as per the requirements. Gas meters can be inductive and magnetic.

1.1 Features

- Easy to use and deploy
- Tamper alert
- Long range wireless data transmission
- AMR Removal detection
- Low Maintenance cost – install & forget
- long battery life (5 to 7 years)
- Configurable data frequency time via downlink
- Five days zero consumption alert

1.2 Applications

- Wireless AMR – Smart metering
- Management of Gas resource.

2. Image of LoRa enabled Gas Meter



3. Specification of LoRa Enabled Gas Meter AMR

Parameter	Range
Frequency range	865 to 867 MHz
Modulation	LoRa® Spread-Spectrum
RF output power	Up to 20 dBm
Receiver sensitivity	-137 dBm (SF 12; SB 125 kHz, CR 4/6)
RF data rate	0.24 to 5 kbps
RF range	up to 5000 m (line of sight)
Operating voltage	3 V to 3.7 V, Separate 5V option
Operating temperature	-40°C to +85°C
Current consumption	<10µA (module in sleep, RTC running) 123 mA (Tx mode) 23 mA (Rx)
Qmax	2.5m ³ /h
Qmin	0.016m ³ /h
tm	20°C to 50°C
Pmax	0.5 bar
V	1.2 dm ³
1imp	10 dm ³
class	1.5

4. Important Notice

4.1 Disclaimer

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