

muRata SPEAKS

TECHNOLOGY | SOLUTIONS | INNOVATIONS

Questions & Answers



1 Can we get to know what was the Murata's response for Water Level Sensor (Ultrasonic)?

Unfortunately, Murata does not have any proposal for water/liquid-level detection.

2 What is the solution from Murata for Water Flow measurement and what is the accuracy associated?

It depends on Magnet configuration on impeller, but 8 or 16 resolution per magnet rotation is possible.

3 I would like to have Murata representative connect with us. We are primarily into multiple products and solutions for Water Management. How do we get connected?

We will get our sales representative to contact you directly after the webinar. Thank you.

4 Do you have 3-D Mag sensor? For Energy Meters?

Murata has 3D AMR sensor (Switch output) for Energy meter. It is available for anti-tampering.

5 Do you support evaluation boards for BLE and NB-IoT?

We do not have any combo module that supports NB+BLE. But, of course, we have two separate, small form factor modules that can cater to your requirement. Please refer **MBN52832 BLE** and **1SC-DM/1SS** NB-IOT solutions from Murata Page (<https://wireless.murata.com/>)

6 How competitive is your price in comparison with others?

Murata modules are high quality oriented modules in terms of hardware and software. There are pre-build encryptions along with custom encryption supports through third parties to secure the data and software logic algorithms.

7 Any solution that prevent from magnet tamper use on the Murata AMR sensor for the meter reading?

Murata has 3D AMR sensor (Switch output) for Energy meter. It is available for anti-tampering.

8 Is there any, and what is the recommendation on LORA gateway service provider in Malaysia region which already have done tested on Murata's Lora module?

Currently, only private network in Malaysia. There is no officially established LoRaWAN network operator. A few companies have been trying for public network operations but there is no coverage as yet. There are actual customers and products released in Malaysia with Murata's LoRa module with the support of Kerlink Gateway.

9 For water flow meter, most Indian customers are looking for ultrasonic sensing technique. Is there any comparison with Murata AMR vs Ultrasonic Sensing schema showing the advantages of AMR?

In common understanding, solution of impeller meter with AMR sensor can reduce both initial installation cost and maintenance cost.

10 How do Murata foresee NB-IoT roll-out in India?

It seems 2021 is the startup for initial pilots from different NB operators and already few test networks have been deployed in major cities.

11 In NB-IoT (Type 1SE) was mentioned. Can I know more about the profile?

Could you please provide more specific details to your question. Please send them to: mes.marcom@murata.com. We will be happy to reply.

12 What are the number of Murata LoRa and NB-IoT modules deployed in India?

We deployed many in the past few years. We suggest you to contact our sales representative in India for more information.

13 I have a question on water sensor. What is the maximum speed and throughput that can be measured?

AMR sensor itself can detect magnet rotation ~ up to 3kHz.

14 In which countries has Murata Lora module been used? Is it the largest node scale? What is the gateway solution when using Murata module?

Murata modules are used globally and have product releases in almost all regions. There are several close collaborations with most of the public operators in several regions. On the private Gateway sector, Kerlink Gateways. Similarly, we support and is compatible with all other major LoRa gateways.

15 For LoRa module, is there available 256K flash and 64K RAM? (Our application is electricity metering.)

Our current LoRa MCU modules comes with 192KB flash and 20KB RAM. It will be sufficient to handle multiple peripherals interfaces and data-logging solutions.