

Key Features and Applications

- Remote monitoring and data collection from pulsed water and gas meter consumption
- Water & Gas utility, Smart City integration, Industrial & Commercial applications
- LTE 4G Cat 1bis connectivity
- Built-in antenna (optional: external antenna)
- Communication protocols: UDP, MQTT, TCP
- Low battery power consumption & long battery capacity lifespan
- High data storage capacity and data auto backfilling feature upon network recovery
- Alarms reporting (Anti-Tampering, Reverse Flow, Low Battery)
- Ruggedized Design with IP68 outdoor protection rating
- Easy plug-on and compatible to series of AMI ready mechanical water and gas meters



T2E0E1

Technical Specifications

Model	T2E0E1		
Communications/Network		Data Management/Alarm	
Wireless Technology	Cellular LTE 4G Cat 1bis	Data Logging Interval	Up to 5min
Frequency Bands	LTE-FDD: B1/B3/B5/B7/B8/B20/B28	Data Reporting Interval	1 uplink/day (default)
	LTE-TDD: B38/B40/B41	Data Storage Capacity	Up to 6 months
Communications Protocols	UDP, MQTT, TCP	Data Auto Backfilling	Up to 7 days upon N/W recovery
SIM Type	SIM card or eSIM	Alarms Reporting	Anti-Tampering, Reverse Flow, Low Battery
Antenna Type	Built-in (optional: external antenna)	Compliance & Certification	
Antenna Gain	≤2dBi	EMF Exposure	EN 62311
Antenna Transmit Power	23dBm (max)	EMC	EN 301 489-1/-17/-52 (RED)
Power Class	Class 3		EN 61000-6-1/-2/-3/-4
External Interface		Radio Performance (RED)	EN 301 908-1, EN 908-13
Wireless Interface	Bluetooth 5.0, 2.4GHz	Environment	EN 300 328
	Transmit Power 10dBm (max)		EN 60068-2-38
Power		In-Country Approval	Kominfo (Indonesia)
Power Supply	19000mAh Lithium Battery	Pulse Sensor	Up to 99.9% (Accuracy)
Battery Capacity Lifespan	Up to 12 years/transmission/day		Up to 0.1L per pulse (Precision)
Operating Environment		Mechanical Specifications	
Operating Temperature	0°C to +55°C	Dimension (mm)	117.5 * 90.5 * 53.1 (L*W*H)
Operating Humidity	≤95%RH	Weight	<400g
Storage Temp. / Humidity	-5°C to +60°C / ≤99%RH	Casing Material	ASA, Grey
Ingress Protection	EN 60529-1 (IP68 rated)		

Disclaimer:

Metrix MIU is an agnostic, third-party IoT-enabled meter interface unit developed to provide high accuracy pulse reading, logging, and transmission via various network communication options. Please note that Metrix MIU is not an official product of the listed water meter manufacturers, and we do not claim any endorsement, approval, or affiliation with them. We are an independent company that provides a cost-effective and reliable solution for accurately measuring and transmitting water data. We are not responsible for any issues that may arise with the water meter manufacturers or their products, and any concerns or issues should be addressed directly with them.

