

# Automated LoRaWAN® Meter Solution

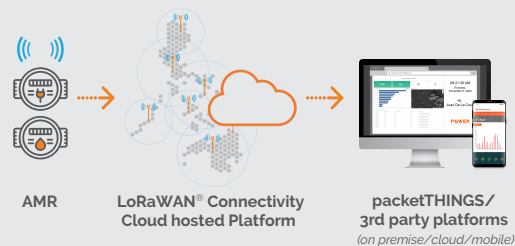
Bringing you the digital age of property management.

Increase your efficiency in property management to a whole new level with the latest evolution in connectivity: *the Internet of Things*.

Through the **Automated LoRaWAN® Meter Solutions** of Packetworx, a more convenient but effective way to run your building or property is now possible.

With the pandemic changing the way we do things on a global scale, businesses found the importance of being able to perform essential functions remotely. Our LoRaWAN®-powered **AMR** enables our partners and clients to deploy low-power smart meters, sensors, and actuators at significantly lower installation and maintenance costs.

## Packetworx's Platform



## Capabilities and benefits of Automated LoRaWAN® Meter Solution



### Remote Metering

Wirelessly measuring usage data in dense urban environments, indoors & underground without the need to check manually.



### Low Operating Costs

Packetworx's AMR offers minimal downtime and maintenance costs due to the system's low power operation.



### Cost-Efficient

With insights on usage, building managers and owners can reduce usage on problem areas.



### Data Analytics

Predict consumption and detect atypical trends, including power outage, water leaks, and fraud.



### Reduce Waste

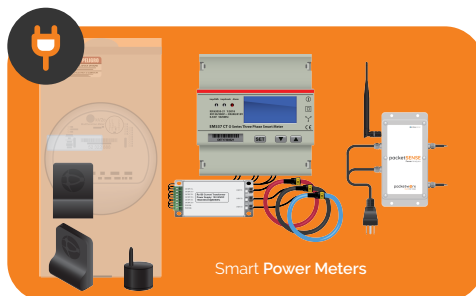
Detect problems before it gets worse. This will result in greater savings on monthly bills and a quick ROI.



### Decrease Theft

Monitor tampering and instant alerts of security breaches.

Packetworx's Automated Metering Solution can record multi-devices for easy billing and detect problems within a utility supply network.



Smart Power Meters



Smart Water Meters

Water Leak Sensor

IoT devices and the LoRa connectivity are our solutions that will help you achieve:

#### DATA-POWERED OPERATIONAL EFFICIENCY

- Get insights on usage patterns, power outage, leaks
- Readily available data alerts you of aging equipment and infrastructures (*water leaks, equipment downtime etc.*)
- Data dashboards help identify how to save on consumption

#### OPTIMIZE REVENUE

- Reduce maintenance costs
- Decrease operating expenses
- Increase building/property value

#### ENHANCE BUILDING/PROPERTY VALUE and EXPERIENCE

- Improve and maintain environmental quality
- Remote turn on and off meters when residents or tenants are out for extended periods of time.
- Better comfort, whether for living or work productivity
- Avoid expensive and complicated automated meter reading installations

Transform your management process with *Internet of Things* today.

**packetworx**  
TELCO FOR THINGS

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**LoRaWAN®**



# Automated LoRaWAN® Meter Solution

## Automated Meter Reading (AMR) done right.

### Frequently Asked Questions (FAQs)

#### What is Internet of Things?

**Internet of Things (IoT)** is the concept of connecting any device to the Internet and to other connected devices. It is a network of things that sends, receives and collects information.

#### Who is Packetworx?

**We are the TELCO for Things.** Our mission is to accelerate the adoption of Internet of Things in the Philippines. We do this by providing network connectivity for the Internet of Things.

**We are a network provider.** We use LoRaWAN® gateways to connect devices/sensors allowing it to send and collect data to the cloud.

**We develop, design, and manufacture wireless, easy to install, and low-power devices, sensors, and actuators.** We use LoRaWAN® technology that enables our devices to last for years. Our devices can last for 3-10 years without changing batteries.

**We are a social enterprise.** To accelerate the adoption of the Internet of Things, we will educate and support inventors, innovators, enthusiasts, students and developers to create their own IoT applications and devices for free.

#### What is LoRaWAN®? Why is it the most preferred technology for the Internet of Things?

**LoRaWAN® (Low Range Wide Access Network)** is a MAC protocol for high capacity long range and Low Power Wide Area Networks. Connecting billions of devices has certain challenges. The current available wireless networks like Bluetooth, WiFi, and ZigBee are not suitable for long-range applications. Cellular networks too can't be used for remote machine-to-machine communication because of inefficient power consumption. Overall, all these networks are very expensive.

#### What are the key benefits of AMRs?

##### Why should I switch?

With Automated LoRaWAN® Meter Solution, errors from manually reading meters are reduced. It saves you from additional expenses of labor and logistics.

AMRs offer an additional layer of efficiency, security, and overall operational profitability. Powered by LoRaWAN®, it generates data analytics that is useful for trend forecasting and ensured transparency for customers or sub-meter owners.

#### What is the advantage of AMRs versus manual meters?

With digitally-accurate and cloud-based meter readings, meter owners can access the data and check their consumption 24/7. This minimizes disputes, which is a common problem in manual meters. Moreover, AMRs, facility managers are also able to efficiently manage and monitor sub-meters, easily correlating the total billings on each sub-meter.

#### How does the AMR solution work?

1. Installation of smart meters in the customer premises.
2. The smart meters send data to the cloud:
  - a. Meter reading
  - b. Alerts on tamperingProperty Managers can remotely reset the meters or turn it on or off.
3. Data can be viewed in the web visualization app and mobile app.

#### How can I avail the Packetworx Automated LoRaWAN® Meter Solution?

Reach us at [info@packetworx.com](mailto:info@packetworx.com) or any authorized member of the Packetworx team. We'll help you assess your AMR needs and develop a workable solution that will be most beneficial for your organization.

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with *Internet of Things* today.

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