

# evoHop™ Range Extender



**evoHop Range Extenders increase the outer boundaries of the evoNet™ AMI system and also serve to route signals around large obstacles – in so doing, the number of evoGate™ Central Collectors is reduced.**

With its highly efficient Wavenis® wireless technology, evolution™ products offer some of the farthest network connections in the industry. Still, some real-world scenarios require longer range than what ground-based evoRTM Endpoints can achieve. In order to connect the most remote devices back to their assigned evoGate Central Collector, evoHop Range Extenders may be needed.

Compared to evoGate Central Collectors, evoHop Range extenders are cost-effective and help reduce the overall cost of the network by reducing the number of evoGate Central Collectors needed to cover the entire service area.

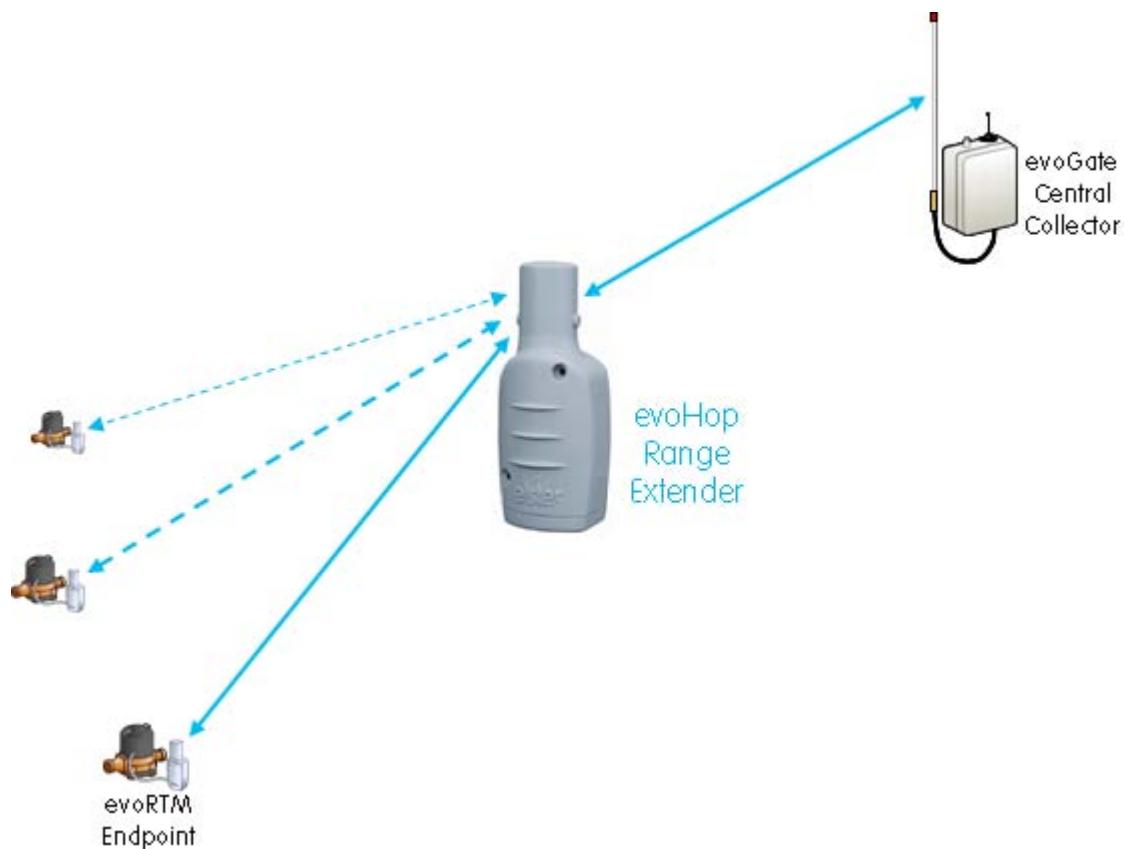
The evoHop Range Extender is an autonomous wireless repeater. It has the same appearance and dimensions as the evoRTM Endpoints. Each evoHop Range Extender is mounted strategically in a location and elevation that enables it to communicate with both the endpoints and the central collector.

## evoHop Features and benefits

- Reduces the number of evoGate Central Collectors needed to cover the entire service area.
- Lowers the overall system cost
- Uses secure and reliable Wavenis communications technology
- Extends system range up to several miles
- Simple solution for circumventing large obstacles and rough topology
- Easy to install
- Self-contained – no external power source is needed
- Small and inconspicuous
- Environmentally rugged
- Low-battery alarm



**evoHop Range Extenders offer a simple solution for network extension that reduces system complexity and cost.**



**Technical features**

- Autonomous battery supply optimized for long range and 20 year life with 10 evoRTM Endpoints connected
- 902-928 MHz unlicensed ISM band
- Frequency hopping spread spectrum (FHSS)
- Forward error correction (FEC)
- Interleaved data
- Approvals FCC 15-249, FCC 15-247-compliant
- Protection class IP68, fully potted, submersible
- Operating temperature -40° to 158°F (-40° to 70°C)
- Dimensions 5 x 2 x 2 in (12.7 x 5 x 5 cm)
- Weight approx. 8 oz

**Mounting**

evoHop Range Extenders are preferably mounted in open locations at an elevation of 10 to 20 feet above grade.

Mounting flexibility is an important enabling factor. Structures that are technically suitable for mounting evoHop Range Extenders include utility poles, light poles, towers and buildings.

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