

# evoGate™



**Monitoring evolution systems through wide area networks (WANs), evoGate gateway gives you remote access to networks of evolution RTMs to deliver benefits from networks that extend from the field right to your office.**

In most real-world metering networks, RTMs are located many miles away from your office and data processing centers. Whether you need to monitor meters in industrial environments, indoors/ outdoors, apartment buildings, or any widespread geographical layout, you can use evoGate to get full access and control from a single location.

evoGate uses Wavenis® ultra low-power consuming wireless technology to communicate with installed Wavenis-powered evolution RTMs, and integrated WAN connectivity to send data directly back to your utility. With evolution you can connect to remote evolution networks to back-end systems and enterprise networks over any distance. Each evoGate can collect and store information from up to 5000 evolution-enabled meters. Data is then transferred to your server via one of many WAN connection options.

With full two-way communications, evoGate can also be used for remote network management, allowing administrators to query RTMs over any distance at any time. evo RTMs can even use the extended network to send various kinds of alerts automatically, ensuring peace of mind for managing even the largest networks.

- 2-way, end-to-end communications
- Secure reliable Wavenis communication protocol
- A single gateway handles groups with up to 5000 evolution RTMs
- Time and date stamp for data and events
- Programmable automatic alarms (power failure, cable damage, low battery)
- Several data backhaul options

### Product features

- Full 2-way communications
- Supports up to 5000 RTMs
- Battery backup up to five days (config)
- Power outage detection and automatic notification
- Event data log and time stamp
- Protection index IP65 - protection against water ingress (outer enclosure)
- All internal electronics are IP67 rated
- Outer enclosure
  - Dimensions: 21 x 16 x 8 in (53.3 x 40.6 x 20.3 cm)
  - Total weight: approx 40 lbs (18.1 Kg)
- Power options
  - AC (140 V)
  - 12v input for solar panel connection (optional)
- Operating temperature
  - 40° to 185° F (-40° to 85° C)
- Relative humidity: 0 to 95%
- Operating software on PC/Windows with client-server architecture
- Management of several concentrators from one server and flexible operating modes
- Top-mounted single antenna
- Remote external antenna (optional) with cable
- Memory/RTM capacity
  - 5,000,000 + reading storage

### Link characteristics

- U.S. 902-928 MHz bands using FHSS
- Wavenis radio range up to 2-3 miles

### WAN connectivity network features

- Ethernet
- Phone line
- WiFi
- GPRS

### Network features

- Supported routing: point-to-point and range extender
- Wireless on-site configuration via laptop PC

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