

# evoDrive™ Mobile Collector System



**Mobile systems are still the most cost-effective form of Automatic Meter Reading (AMR), but only evolution™ AMR allows migration to a fully functional, fixed network AMI system without any change out.**

## Features & Benefits

- Low infrastructure and network maintenance costs
- Reduced infrastructure hardware
- Low installation costs
- Easy system scalability
- Endpoint can be field programmed to fixed network mode without meter change out
- Flexible hardware options for utility Customers

## Cost-effective Migration

The traditional view of AMR in the water metering industry has finally evolved to a truly intelligent technology that drives a comprehensive water utility solution. AMR systems in the water market have delivered on the promise of reduced overall meter reading costs and estimated bills, resulting in increased and accelerated cash flows for the water utility. Additionally, the evolution system offers water service providers the flexibility of implementing a mobile system first, and migrating to a fixed network later, without a system change out, further securing current investments towards the future.

## Software features

- OS: Win XP Pro on a rugged laptop
- Supports GPS via Bluetooth receiver with acquisition and storage during route reading
- Route and Endpoint mapping standard
- Route files can be transferred via any portable media storage device
- Collect out-of-route reads for entry into evoRoute Manager
- Data logging acquisition
- Obtain status of all flags during each read (leak, cable cut, low battery)

## Performance

- Operating frequency Transmitter 952 or 956 MHz (FCC license required)
- Receiver 902-928 MHz unlicensed ISM Band

## Functional

- Power supply 12 V DC adapter
- FCC compliance FCC part 15 and part 101 compliant
- Antenna Separate transmit and receive antennas
- Hardware Rugged notebook PC
- Mounting Laptop compatible with most commercially available in-vehicle mounts  
Mobile transceiver mounting behind passenger seat (recommended)

## Environmental

- Operating temperature -4°F to 140°F (-20°C to 60°C)
- Storage temperature -40°F to 160°F (-40°C to 70°C)
- Humidity limits 5 to 95% relative humidity

## Physical

- Mobile transceiver dimensions 15" x 18" x 4"
- Weight ~25 lbs Mobile Transceiver + Notebook PC

## Operation

Meter readings are captured by simply driving the route. In addition to meter reading, the evoDrive system collects alarm data, such as tampering, residual leaks, extreme leaks, backflow (when encoder registers are used) and battery status of each evoRTM Endpoint.

As you drive the route, you can track your progress visually on the mapping interface of the evoDrive ruggedized laptop. It's easy to see when RTMs are not being read and you can see exactly where you are in the route in real time.

Upon returning to the office, completed routes and collected data are transferred to the PC that is running the evoRoute Manager software where it is transferred to the billing database and formatted into reports.



## evoDrive System



- 1 evoDrive Mobile Transceiver
- 2 evoDrive notebook PC
- 3 evoDrive application
- 4 Antennas
- 5 GPS unit
- 6 USB flash drive

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