MASTER METER®

Master Meter's 3G Mobile AMR solution is a comprehensive meter reading platform with fixed network-like performance, minus the infrastructure or cost. Realize advanced water management tools with the convenience and flexibility of our premier drive-by technology.

Technical Specifications:

Communication — 902 - 928 MHz license-free frequencey range operating under FCC part 15 regulations

Radio Modulation — Secure, unlicensed, spread spectrum RF technology

Power Source — Dual 3.6 volt Lithium Thionyl Chloride batteries with warrantied 20 year operational life

Environmental Protection — IP68+ , Ambient operation temperature 4° F to 140° F

Humidity Rate - 0% to 100% non-condensing

Real Time Clock - Integral system-wide meter read synchronization using dual real time clock (DRTC) microchip processor

Features & Benefits:

- **Active Revenue Impact Alerts** — Vigilant protection against theft, leaks, tamper and zero consumption (disabled or removed meter).

- **3G SyncReads** — System-wide meter data for precision accurate water accountability and analytics.

- **3G Personal Consumption Profile** — Detailed snapshot of consumption behavior, and verification of leaks and flow anomalies. Empowers conservation and accountability.

- **3G Rightsizer** — Minute-by-minute meter flow analysis. Optimize revenue, reduce wear, and record every drop.

- **3G LeakZones** — Macro leak containment through zonal balancing and district meter areas and zones (DMA/DMZ)

- **3G Real Time Feed (RTF)** — Data is pushed in real time back to headquarters for timely usage and analysis.

- **Two-way communication** — advanced in-field data collection and diagnostics.

Technical Specifications (Cont'd):

• **Meaure.Collect.Manage** — Complete system entails meters outfitted with fully integral AMR register system (endpoint) whereby all electronics (high-resolution encoder, antenna, and battery) are contained within a stainless steel register housing, fully under the glass with no connections. Collect; Mobile transceiver capable of capturing unlicensed RF signal with integrated GPS based mapping system and real time communications to utility headquarters. Manage; Browser-based cloud-enabled software system allowing data capture from multiple sources (Hand Held Field Computers, AMR, AMI, Remote 3G Cellular) and concurrent multiple devices.

• **System Integrity** — 3G Mobile must ensure data integrity and accuracy (i.e., meter readings, ID numbers, and other data are always correct, and check-sum error checking). Data Security (i.e., using over-the-air encryption to avoid meter reading transmissions and customer data being intercepted or accessed by unauthorized parties). The endpoints must ensure against loss of data.

• **Programmability** — Endpoint must be capable of two-way RF communication for field programming of a user selected ID number or for resetting specific alarm codes. Programming must be accomplished without removing the endpoint from a pit, basement or wall application. Comm must be RF based - touch wands or light emitting wands not allowed.

• **3G DataLogs** — Data logging must be at minimum 4,000 points of user-defined, high-resolution intervals down to the minute.

• **Alerts/Alarms** — Must use active sensing technology to determine forward and reverse water movement, magnetic tamper presence, and micro low flow for leak reporting.

3G Mobile for Master Meter Products

Standard 3G
Register

3G Mobile for Competitor Products

LCD
Interpreter

3G XTR™
Connects to any encoder
register.

3G Mobile for Specialty Meters

3G XTR

(XTR integrates Propeller, Magnetic,
Ultrasonic, V-Cone, or other meter
technologies with pulse output)

3G Mobile for Gas and Electric Meters

Actaris

American

Sensus

Landis+ Gyr

Master Meter, Inc.
Toll Free: 800-765-6518
Fax: 817-842-8100
Email: innovate@mastermeter.com