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 frequency 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):

• **Measure.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.