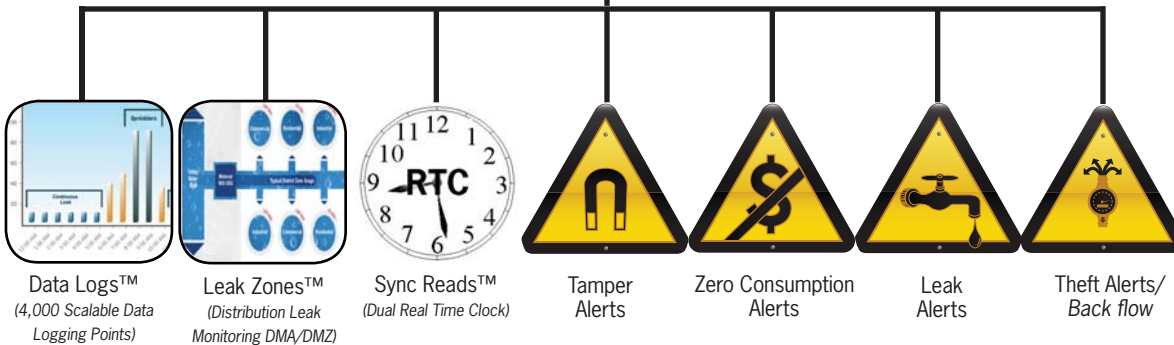


3G MOBILE™ DRIVE-BY AMR



Moving far beyond just a cost effective meter read, 3G Mobile is a powerful aid in water conservation programs, water loss mitigation and usage restriction enforcement while greatly improving customer care programs.

Nearly 2,000,000 endpoints later, 3G Mobile remains today's most advanced drive-by AMR system on the market. In its first year, 3G won the coveted Frost & Sullivan Market Engineering Award for Product Quality Leadership. Master Meter continues this leadership role in value delivery through continued software and technology refinement enabling best-in-class smart tools for utility management.

Integral data logging resolves billing disputes and our exclusive Revenue Impact Alerts™ notify utility personnel of leak, theft, tamper and zero consumption scenarios. These powerful interactive tools are available in real time while in the field to help reduce the utility's carbon footprint caused by unnecessary trips, between the utility and the customer.

Our unique technology platform essentially mimics many of the benefits inherent with fixed network systems such as synchronized meter reads, District Metered Areas and Zones (DMA/DMZ), and leak, theft and tamper alarms, but without the complexities associated with AMI.

FEATURES:

- * Advanced direct sequence (DS) spread spectrum mobile RF technology ensures highest possible first pass read rate.
- * Revenue Impact Alerts™ monitoring for theft, leak, tamer and zero consumption with real time notification and integrated true GPS route mapping.
- * Sync Reads™ – Dual real time clock (RTC) enables synchronized meter reading in mobile drive-by mode for use with District Meter Areas / Zones (DMA/DMZ).
- * 3G DataLogs™ – 4,000 points of integral scalable data logging provide a powerful conservation, customer service tool and utility theft evidence.
- * Extremely portable lightweight, go-anywhere design ensures flexibility among utility personnel

3G MOBILE SPECIFICATIONS

COMMUNICATION 3G technology operates in the 902-928 MHz unlicensed ISM bandwidth and complies with FCC Part 15 regulations, utilizing direct sequence (DS) spread spectrum technology to ensure accurate rapid data collection in a mobile reading environment and provide superior mitigation against interference and/or signal collision phenomena.

DATA INTEGRITY. ACCURACY. SECURITY. 3G technology provides data error checking to protect data accuracy and over-the-air encryption for data security while preventing accidental loss of data, unauthorized data access or intercept, and data integrity.

3G ENDPOINT ConnectionFree® Technology - The entire 3G endpoint is fully integrated into the absolute encoder register housing, hermetically sealed using a stainless steel register base to resist deformation, wrap around gasket and tempered glass lens. Battery shall be two 3.6 volt Lithium Thionyl Chloride guaranteed for long 20 year operational life. No external antennas, batteries, or wires are permitted. Unit must be environmental rated to IP-68 standards. All electronic system components must operate within a temperature range of 4°F to 140°F, and a humidity range of 0% to 100% non-condensing.

PROGRAMMING Each 3G endpoint provides a unique, non-programmable permanent ID number. 3G endpoints provide full 2-way communication to enable customer-specific programming or alarm reset. Any optional programming must be capable without removing MIU from pit, basement, or wall application.

REVENUE IMPACT ALERTS

* Leak - The 3G endpoint shall monitor water consumption through the meter and shall specifically indicate possible leaks as alarm flags to the route management software, whenever the meter has not detected zero consumption for one hour within a single twenty-four hour time period.

* Tamper - 3G endpoint shall provide tamper detection circuitry and software which identifies tamper as alarm flags to the route management software, whenever the MIU has been tampered magnetically or whenever the external wires, if applicable, have been cut or disconnected.

* Theft / Backflow - 3G endpoint shall indicate as alarm flags to the route management software, whenever there is an unusual amount of counter-clockwise registration or back flow.

* Zero Consumption - 3G software shall indicate the presence of abnormally low usage possible indicating a vacated service or stuck meter.

DATA LOGGING 3G endpoint shall provide a minimum of 4,000 scalable data points whose data interval/ read resolution is user defined.

REAL TIME CLOCK 3G shall incorporate a Dual Real Time Clock (RTC) designed for use in District Metering Areas/Zones (DMA/DMZ), or other synchronized read application across metered points of delivery and consumption.

3G WARRANTY All 3G endpoints, integral or external shall be guaranteed to be free from defects in materials and workmanship for a period of 10 years from the date of purchase. Additional 10-year prorated battery coverage increases the total warranty period to 20 years

3G TECHNOLOGY FOR MASTER METER PRODUCTS



Standard 3G Register



AccuLinx™ 8-Wheel Absolute Encoder

3G TECHNOLOGY FOR COMPETITOR PRODUCTS



LCD Interpreter



Interpreter Universal AMR Register



3G XTR™ Connects with existing absolute encoders

MULTI-UTILITY SOLUTIONS



3G GAS™

(Retrofits 97% of Gas Meters in North America)



3G PWR™

(For Solid State 2-Board Electric Meters)

INTEGRATION OF SPECIALTY METERS



3G XTR

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

Master Meter, Inc. Reading the Future™

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