

DIALOG 3G[®] AMR TECHNOLOGY



FULLY INTEGRATED AMR SOLUTIONS

Master Meter's proven 3G ConnectionFree™ AMR Technologies provide improved utility management, awareness and a closer relationship with the end-user. Our completely integrated AMR solution incorporates leading-edge technology at every critical point—from the meter and register to our fixed network migratable

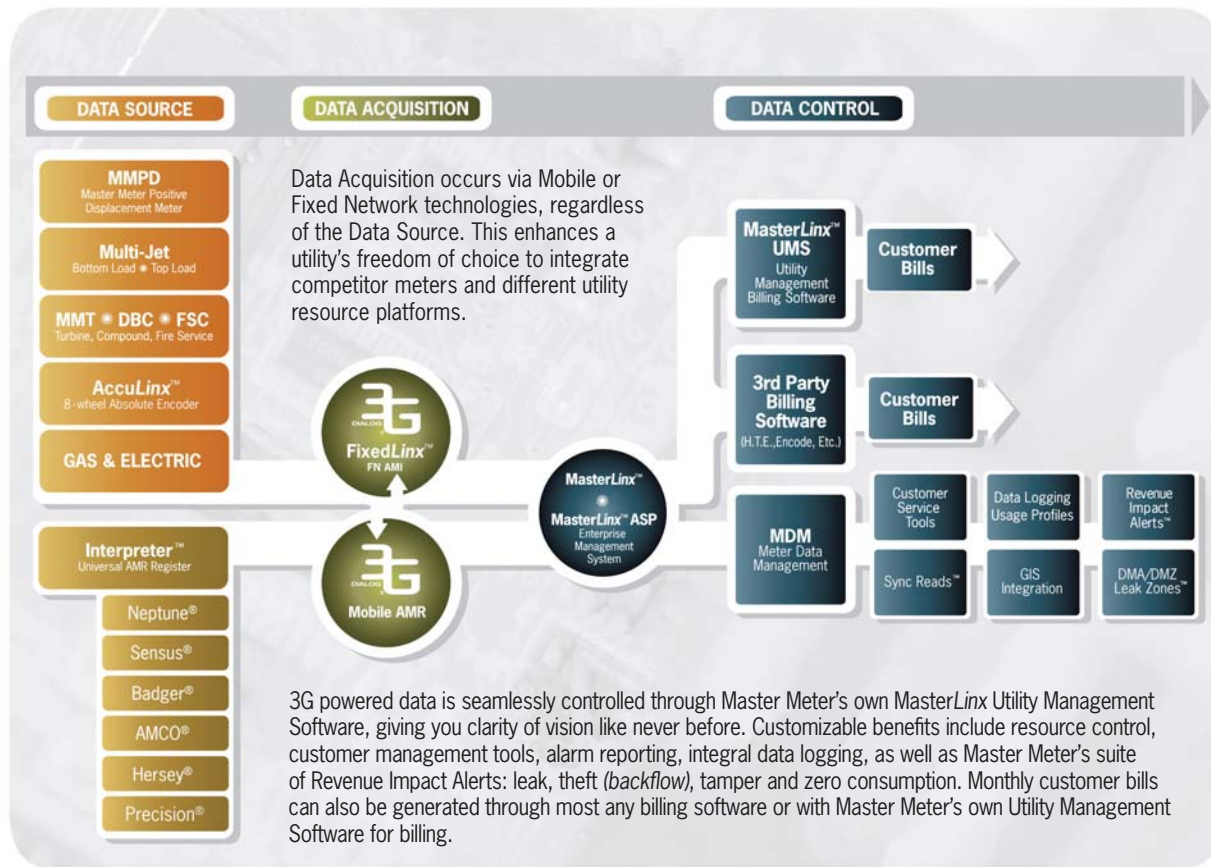
mobile read system and utility management software. 3G enabled water, electric, and gas meters provide full compatibility & functionality for AMI applications on the horizon. Get pioneering AMR performance at every level with our master-planned system.

FEATURES: Water, Gas & Electric Applications



- * Integrated Single-Source AMR System:
Measure > Read > Manage > Act
- * 3G Mobile™ Drive-by AMR, FixedLinx™ Fixed Network System
- * ConnectionFree - No Wires, No Programming
- * Revenue Impact Alerts:™
Leak, Tamper, Theft (backflow) & Zero Consumption
- * 4,000 Read Data Logging Provides Pinpoint Usage Detail for Informed Customer Service, Conservation Program Management, and Water Restriction Enforcement
- * DMA & DMZ Ready for Advanced Infrastructure Leak Management (see side bar on back page for details).
- * MasterLinx™ Software Suite - Integrated Utility Management and Billing Interface
- * Comprehensive Cross Departmental System Training, Unlimited Annual Phone Support
- * Superior IP- 68 Internationally Recognized Environmental Rating
- * FCC Part 15 Compliant Unlicensed ISM 902 - 928 Mhz
- * Flexible Dual RF Modulation: Direct Sequence Spread Spectrum (DSSS) and Wide-Band for highest assured read completion.
- * Optional User-Defined Programmability for Improved Control
- * Auto Activation Ensures Fast "Drop & Go" Installation

OUR COMPLETELY INTEGRATED AMR SYSTEM



DATA SOURCE



3G REGISTER FEATURES & BENEFITS

3G AMR technology available on all Master Meter products



3G Universal XTR

- Retrofits most competitor's electronic, absolute encoder and pulse output registers.

3G Interpreter

- Retrofits virtually any current competitor bayonet style meter.



3G WR Wireless Retrofit

- Immediate, simple upgrade for Master Meter DIALOG enabled direct read registers.



CONNECTIONFREE: Smart design features all vital components — encoder, RF transmitter, battery and antenna — safely under-the-glass in a stainless steel body to ensure years of maintenance free service. Forward and reverse technology migration. Always available mobile backup to FN infrastructure.

REVENUE IMPACT ALERTS:

- ✦ **Leak Detection:** Proactive leak notification aurdrs against leaking faucets, hose bibs, and toilet tanks. Saves costs and bolsters conservation efforts
- ✦ **Tamper & Theft:** Stop theft and be notified of reverse metering attempts and improper meter installation. Be alerted to magnetic tamper.
- ✦ **Zero Consumption:** Alerts utility to a potential "stuck meter" or vacated water service

DMA/DMZ READY: Integral Real Time Clock (RTC) enables advanced infrastructure leak management. Mimics Fixed Network ability to provide synchronous reads. See side bar on back page for further details.

NO PROGRAMMING: Install like any standard direct read meter and walk away; no wires, no drilling and no programming. The integrated 3G transmitter activates automatically giving you dramatic installation time and cost savings.

4,000 READ DATA LOGGING: Delivers uncompromising customer service benefits and detailed records to resolve billing disputes. Data logging is completely customizable with utility-defined TBR (Time Between Reads). The utility and their customers can determine the desired resolution of their data logging.

FIXED NETWORK MIGRATION: Technology investments are protected through our fully migratable system design. Migration does not mean limitation. Master Meter's scalable and modular architecture allows for hybrid technology where a combination of these technologies can coexist seamlessly for superior flexibility and control. Master Meter's system design gives the added advantage to always have the Mobile as a backup to Fixed Network in case of natural disaster or other potential outages.

20-YEAR INVESTMENT PROTECTION: Master Meter's electronics warranty protects against battery or transmitter failure for 10 full years and then a generous 10 year prorated schedule.



A) - MASTER METER DMMR

Compact Transceiver

- * Bluetooth® enabled ConnectionFree design
- * Narrow Band, Wide Band, and Direct Sequence Spread Spectrum (DSSS) enabled transceiver.
- * Provides non-licensed 2-way communication with uncompromising forward backward compatibility

B) - HANDHELD

Semi or Fully Ruggedized Handheld Computer

- * Optional MIL-STD 810F Model Available
- * Touch Screen
- * Rigorous IP65 or IP67 environmental rating
- * Optional ConnectionFree Bluetooth

C) - 3G MOBILE™ DRIVE-BY AMR

Panasonic Toughbook

- * ConnectionFree Bluetooth*
- * Genuine Windows® XP Professional or Microsoft Vista™
- * Large 15" Display for easy mobile viewing
- * Shock-mounted, Removable Hard Drive
- * TPM and Optional SmartCard for Added Security
- * Intel® Centrino® Duo Mobile Technology

D) - 3G BOOSTER™



Migrates 3G Mobile to FixedLinx™ Fixed Network Platform

- * Fully migratable system design
- * Redundant read system will always provide Mobile as a back up to Fixed Network in case of natural disaster or other potential system outages
- * Each booster capable of reading up to 2 meters
- * Wall or pit design booster available

- * Scalable architecture to accommodate growth
 - Flexible TCP/IP backbone
 - Intuitive, browser-based system software design
 - Data redundancy, data verification, and firewall data security.

* Not available on all models

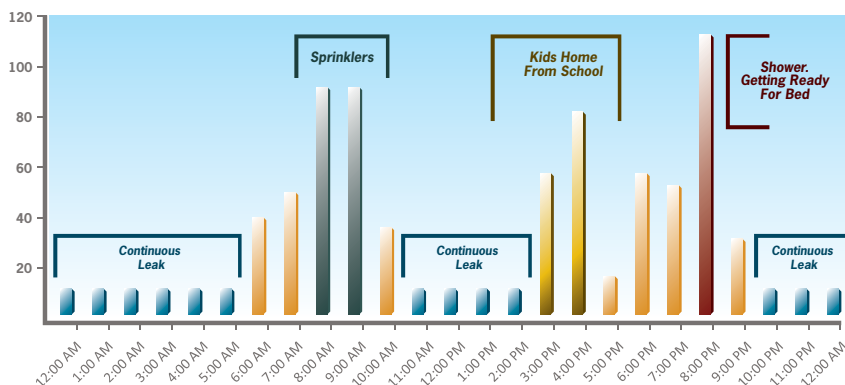
MASTERLINX DCS AND VRS SOFTWARE

- * MasterLinx seamlessly integrates with 3rd party billing software
- * Generates work orders
- * Our BridgeBuilder can be used to build an interface to conform to most any 3rd party billing system.
- * MasterLinx is scalable, intuitive, and delivers control over meter reads and usage data
- * Manual read, Proximity Read and Mobile 3G AMR routes can be supported simultaneously

BRIDGEBUILDER BILLING SYSTEM INTEGRATOR SOFTWARE

- * Provides seamless integration between MasterLinx and existing billing software delivering significant cost savings and ensured compatibility

DATA LOGGING DETAIL



3G TECHNICIAN SOFTWARE

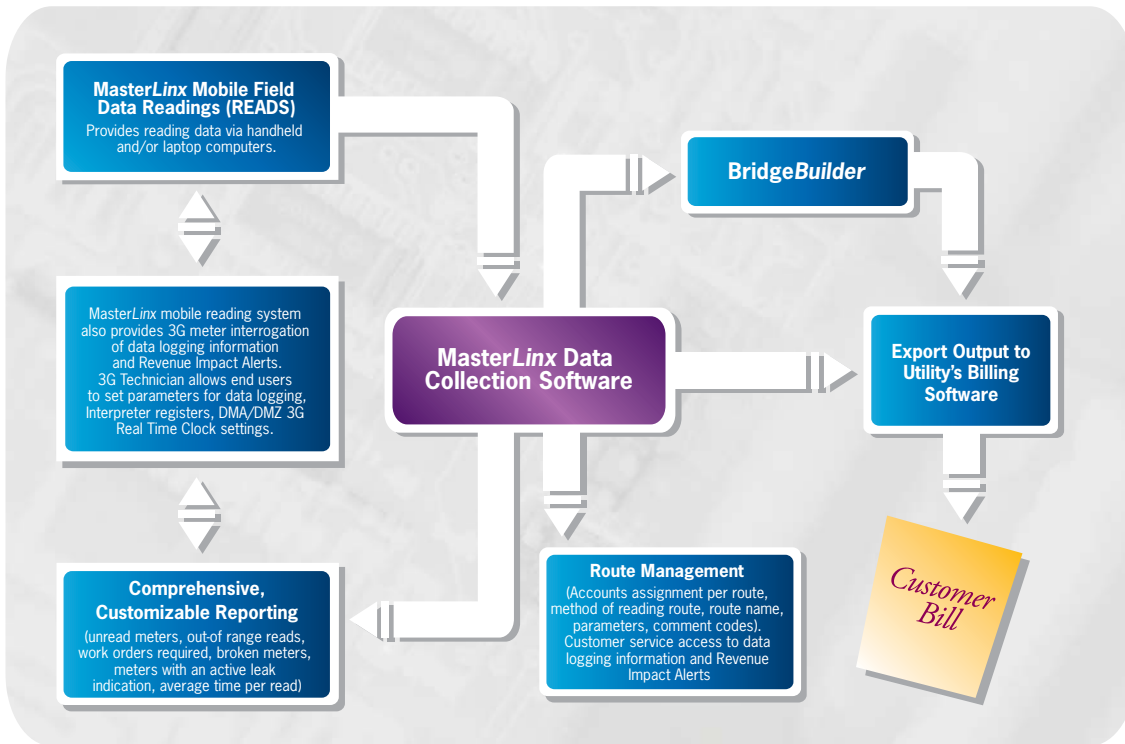
- * 4,000 read data logging management
 - Provide proactive customer service with pinpoint usage details and substantial data to specifically address high use and resolve billing disputes.
- * Program/reprogram 3G enabled registers
- * Configure any 3G register for use in a DMA/DMZ leak management program.
- * No service interruption during updates
- * Diagnose and troubleshoot any 3G transceiver

MASTERLINX ENTERPRISE MANAGEMENT SYSTEM

- * MasterLinx is an enterprise-level, browser based application that will provide increased scalability and expansion while allowing for data redundancy, enriched with powerful visual data charting and graphics.

OPTIONAL INTEGRATED BILLING SOFTWARE PACKAGE

- * Full featured, user-friendly application is ideal for small to midsize water utilities that desire advanced billing software features from a system that is easy to adapt and manage.



WATER LOSS BEFORE THE METER... WHO'S FOOTING THE BILL?

Water loss in your distribution system may be costing you more than you think.

Master Meter 3G Registers feature an integrated Real Time Clock (RTC) designed for use within District Metering Areas/Zones (DMA/DMZ). This advanced technology allows for synchronized reads across all metered points of delivery and consumption within a zone, specific for a duration or time. Utilities can subtract actual metered consumption from total flow into the zone to accurately identify resource loss (Non Revenue Water) from distribution system leaks, theft and meter malfunctions.

Pinpoint losses attributed to:

- * Distribution System Leaks
- * Inaccurate Meters
- * Theft

900 USG (Total flow metered into the zone)
- 600 USG (Actual metered consumption within the zone)
= 300 USG (Water loss)

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