G.A.S.$_T$

Gas Allocation System - Timing
Fireplace, Furnace and Hot Water Heaters

- Energy Allocation Of Furnace, Fireplace, and Domestic Hot Water Equipment With Inovonics Wireless Platform Non-Proprietary Design
- Industry Leader In Converting Owner Paid Utilities To Resident Paid Utilities
- 24 Years Experience Converting 100,000 Units

- Daily Tamper Detection Circuitry Provides Over 99% Equipment Up Time Highest In Industry
- Allocation Accuracy And Service Provide Highest Resident Billing Satisfaction In Industry
- Designed And Supported For 40 Year Life Expectancy

Battery powered (uses Inovonics Transmitter Lithium Battery) - single battery has 5 + year life expectancy

Tamper detection circuitry provides over 99% metering up time - the highest in the industry

Furnaces and domestic hot water heaters are metered by measuring gas flow "on time." G.A.S.$_T$ is the only system in the industry that has daily tamper detection. The tamper detection mechanism indicates any third party tampering by maintenance staff or residents by detecting cut or disconnected sensor wires. G.A.S.$_T$ uses the industry-standard Inovonics wireless platform for data transmission and collection.

877.572.1770 3358 Adobe Court Colorado Springs, CO 80907

G.A.S.T

Gas Allocation System - Timing
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SYSTEM DESCRIPTION

The G.A.S.T is designed to automatically allocate gas consumption of forced air gas furnaces, fireplaces and domestic hot water heaters using standard non-proprietary equipment.

The microprocessor based design provides 99.9% accuracy and incorporates unique daily tampering circuitry to detect disconnects and cut wires to furnace, fireplace or domestic hot water heater.

With 30 years experience designing, installing and servicing gas allocation systems, Energy Metering Systems, Inc.'s G.A.S.T equipment finally provides 40+ year dependable allocation and resident billing. Over half of all hard-wired allocation systems installed to date have been abandoned due to poor design, service and subsequent estimated billing errors. The G.A.S.T coupled with Energy Metering Systems, Inc.'s on-site service and reporting provides for a 40+ year design life expectancy with equipment "up time" of 99%+.

The unique daily tampering circuitry plus monthly reporting of equipment "outages" allows property management to verify equipment up time of 99%+ and subsequent resident billing accuracy. Resident Manager and resident billing satisfaction is assured with high billing accuracy.

SYSTEM SPECIFICATION

- Furnace Installation - Measure 24VAC gas valve "on time" with 99.9% accuracy - LED indicator flashes during "on time."
- Fireplace Installation - Built-in switch allows for wall mounting - replaces normal on-off switch - operates fireplace while measuring gas flow "on time."
- Domestic Hot Water Installation - UL presure switch connects to gas valve to provide gas flow "on time."
- Battery powered (uses Inovonics Transmitter Lithium Battery) - single battery has 5 year life expectancy.
- Daily Tamper Circuitry - detects and transmits tamper code for disconnect (or cut wires) to furnace, fireplace or domestic hot water heater.
- Low power Texas Instruments (MSP430) microprocessor accumulates data, provides daily tamper testing and transmits data to standard Inovonics 1501 Transmitter.
- Data collection via Inovonics wireless repeater network and DCC (data collector and concentrator) or Energy Metering Systems, Inc. CU (Central Unit).

Gas T Specifications

Accuracy:	**Timing: 99.9%**
Input:	**24-volt AC Gas Valve or Zone Valve**
Output:	**Data to 9999.99 Hours**
Processing:	**Low-Power Microprocessor Accumulates Data, Provides Daily Tamper Testing And Transmits Data**
Dimensions	**3-1/2" Width x 6-1/2" Height x 1" Depth**