Badger Read-o-Matic®
REMOTE READING FOR GAS METERS

IMAC Systems Inc.
International Measurement and Control Systems
Manufacturer/Distributor of
Precise Gas Flow Measurement Equipment

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Distributed by:
Solve Your Meter-Reading Problems
With Badger's Gas Read-o-Matic

Badger Read-o-Matic provides an economical, time-proven method of obtaining remote readings from gas meters that are installed in basements, on rooftops or in other hard-to-reach locations. Without relinking meters, gas utilities can eliminate access problems, estimated billings and inconvenience for meter-readers and customers.

Mounted on an exterior building wall, the Read-o-Matic remote register is connected by wire to the generator on the meter. Gas flowing through the meter provides all the energy needed to operate the generator and the outdoor register.

Read-o-Matic was the original outdoor register for water meters, and the idea was so well accepted that Badger developed a Read-o-Matic especially for all hard case gas meters. Badger Read-o-Matic is helping thousands of utilities to save time, money, and manpower with meter-reading.

Although most applications are for residential sites, Read-o-Matic is equally suited for industrial, commercial and apartment buildings where meter readers have access problems. The remote registers also are frequently used in central reading stations for shopping centers.

For gas utilities, Read-o-Matic is available with a direct-reading index and different generators for meters with capacities from 75 ccfh to 10,000 ccfh. (See facing page)

TYPICAL METER-READING PROBLEMS...
Utilities BENEFIT from the Read-o-Matic
Read-o-Matic Produces Quick PAYBACK for Utilities
Look How Read-o-Matic Can Help You

**BENEFITS**
- Eliminates lockouts
- Improves efficiency - 3 to 5 times improvement
- Eliminates the need to estimate billings
- Eliminates the risk of in-house accidents
- Improves customer relations; fewer meter reader interruptions
- Requires no batteries or house current
- Installs simply, easily and fast!
- Requires no additional equipment to operate
- Over 25 years of reliable service history behind design
- 5 million units in service
- Design compatible with future technological changes to accommodate AMI

**PAYBACK**
- Eliminates cost of callbacks
- Reduces manpower needs
- More timely, accurate billing and cash flow; eliminates cost of handling/answering customer complaints
- Fewer work-related accidents, fewer workman compensation claims
- Reduces manpower needed to handle customer complaints
- Eliminates cost and maintenance of batteries, and lost revenues from a power outage
- Most cost effective remote to install
- Lowest cost remote system to purchase, maintain, and operate
- Value engineered to be the most durable, reliable, cost effective remote system
- Eliminates replacement and installation costs to upgrade system for AMI

Read-o-Matic PAYS for Itself . . . AGAIN . . . and AGAIN . . . and AGAIN

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Badger's Read-o-Matic has been designed to fit the following list of hard case and rotary gas meters:
- American
- Lancaster
- Rockwell
- Romet
- Roots
- Sprague
- Superior

For more information or to place your order refer to the back page of this publication.

Model 570 direct-reading index is available with four or five number wheels and offers two dial options: single window for meter serial number or double window for apartment and serial numbers.

Generator for large-size gas meters with capacities between 750 and 10,000 cfh, installed on top of meter along with original index.
Read-o-Matic System Easy To Install

Installation of a Badger Read-o-Matic involves only a simple, two-wire connection between the remote register and the generator. The outdoor register can be located up to 625 feet away from the gas meter using 19-gauge wire, and even farther with heavier-gauge wire. To install a residential-type Read-o-Matic, follow these five simple steps:

1. Remove original index from gas meter.
2. Remove cover and housing from Read-o-Matic generator.
3. Mount generator and adaptors where needed, and original index onto meter. Connect wires to generator terminals.
4. Install generator housing and cover onto generator.
5. Run wire to outdoor register and connect to register terminals. Mount remote register on wall to complete installation.

PRINCIPLE OF OPERATION

A self-contained generator is mounted on the gas meter and connected to the Read-o-Matic outdoor index by low-cost, two-conductor wire. The flow of gas starts the system operating by producing a rotary motion of the meter drive dog. This motion is transferred to a spring-loaded, six-pole magnet in the generator by means of a reduction gear train and an idler gear.

When the escape gear is released, the biasing springs return the magnet to its original position. This action produces a pulse signal of short duration in coils located near the magnet.

The pulse (approximately 8 volts) is transmitted over the wire to a solenoid in the outdoor register. One pulse is sent for every 100 or 1,000 cubic feet of gas, depending on the meter size. The Read-o-Matic register advances one digit for every pulse received.

ORDERING INFORMATION

To order, specify the gas meter and model number, index test circle, and the maximum registration for the direct-reading remote register.

Call your local Badger Read-o-Matic Representative: