STAR® Submetering Modules

The Hexagram STAR® system provides fully automatic meter reading without meter readers, handhelds, or expensive wiring. Powerful, narrow band meter transmitters allow the use of a single data collector, without repeaters, to economically read large submetering installations in developments, high-rises, and other multi-tenant communities.

- The STAR® Meter Transmission Unit (MTU) is a small, sealed module which connects to any gas, water, or electric meter that provides an electronic output.

- The STAR® MTU transmits meter reading information to the STAR® Data Collection Unit (DCU) which is located on the site.

The STAR® MTU is mounted in a convenient location near the utility meter. Several times each day, the MTU broadcasts the meter reading and account information by way of a brief radio transmission that can be received up to several miles away.

STAR® MTU messages are received by the DCU located on the site which decodes and error-checks the data. The information is time-stamped, processed, and stored with diagnostic information and data from other MTUs.

STAR® MTUs are available with two inputs, which allows for ongoing reading of two separate meters in any combination. This means one MTU can read two water meters, or a water and a gas meter, or a gas and electric meter,- whatever two meters are installed.
STAR® SUBMETERING METER TRANSMISSION UNIT (MTU)

GENERAL SPECIFICATIONS

Transmission range .......... Up to several miles, depending on environment
Frequency ...................... Licensed UHF frequency (450 to 470 MHz.)
Account number ............... Up to 12 digits
Meter reading .................. Up to 6 digits
Scale Factor .................. Programmable from 1:1 to 2000:1 (for pulse meters)
Inputs.......................... Single or dual
Transmitter .................... Powerful, narrow band UHF transmitter per FCC Part 90
Battery life .................... Calculated 20 years @ 70°F
Environmental .................. 0 to +50°C, indoor use only
Diagnostics.................... Tamper sense, battery status, meter malfunction (encoder meters)

DIMENSIONS

Height ......................... 5.5 in.
Width .......................... 6.5 in.
Thickness ..................... 1 in.

MOUNTING

MTUs are mounted on a nearby wall or joist. For gas applications, MTUs are available that mount directly behind the meter register.

METER COMPATIBILITY*

<table>
<thead>
<tr>
<th>Generator Registers</th>
<th>Reed Switch Registers</th>
<th>Electronic Registers</th>
<th>Encoder Registers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Badger Read-O-Matic</td>
<td>Master Meter</td>
<td>Hersey ER-I</td>
<td>Sensus ECR</td>
</tr>
<tr>
<td>Hersey Gen-a-Reader</td>
<td>Precision Meter</td>
<td>Badger RTR</td>
<td>Schlumberger ARB</td>
</tr>
<tr>
<td>ABB Kent RMR</td>
<td>Metron-Farnier</td>
<td>All electronic electric meters</td>
<td>Schlumberger ProRead</td>
</tr>
<tr>
<td>Schlumberger Pulser-RM</td>
<td>Hexagram-supplied sensors for gas and electric meters</td>
<td>All others</td>
<td>Kent SCANCODER</td>
</tr>
<tr>
<td>All others</td>
<td>All others</td>
<td></td>
<td>Contact Hexagram</td>
</tr>
</tbody>
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*STAR® MTUs contain a versatile input which can be configured to meet almost any application.

OPTIONAL FEATURES & FUNCTIONS (may require additional equipment.)

- Run-time recording for meter-less “allocation” billing
- Equipment monitoring
- Leak Detection
- Security

NOTICE: This device is type accepted by the Federal Communications Commission for use pursuant to a station authorization. STAR® is a registered trademark of Hexagram, Inc. All software is property of Hexagram, Inc. Patents issued and pending. Hexagram reserves the right to change the specifications on this product without prior notification.

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