

**STAR<sup>®</sup>**

Submetering

Automatic Meter

Reading System

**STAR<sup>®</sup> Submetering Data Collection Units**

The Hexagram **STAR<sup>®</sup>** 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<sup>®</sup>** Data Collection Unit (DCU) receives, time-stamps, and stores meter reading data collected from **STAR<sup>®</sup>** Meter Transmission Units (MTUs).
- The **STAR<sup>®</sup>** DCU transfers meter reading information to the **STAR<sup>®</sup>** Network Control Computer (NCC) installed at any off-site location.



The **STAR<sup>®</sup>** DCU is mounted in a convenient location such as a utility closet or storage room. The DCU contains a radio receiver, computer, and a modem. Power is provided by a 120 vac source.

**STAR<sup>®</sup>** MTU messages are received by the DCU which decodes and error-checks the data. The information is time-stamped, processed, and stored with diagnostic information and data from other MTUs.

Once each day, the DCU contacts the off-site NCC and transfers the meter reading data. The NCC processes this information and provides billing and customer service data.

The standard model DCU has a telephone modem for communication with the NCC. However, the DCU can also be equipped with a cellular modem or other communication device.

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# STAR<sup>®</sup> SUBMETERING DATA COLLECTION UNIT (DCU)

## GENERAL SPECIFICATIONS

Reception Range .....	Up to several miles, depending on environment
Frequency .....	Licensed UHF channel (450 to 470 MHz)
Environmental .....	0° to +50° C; splash-proof enclosure for indoor use only
Memory Capacity.....	60,000 readings
Power Requirements.....	120 vac unswitched line power
Power Source.....	16 vac, class 2, UL approved plug-in transformer (supplied)
Backup Battery Life .....	5 days
Diagnostics .....	Line power presence is confirmed daily Back up battery capacity, memory and system tests are performed with each NCC call
Size.....	21"H x 12.5"W x 6.8"D
Weight.....	Approximately 30 lbs.

## SYSTEM SPECIFICATIONS

Maximum MTU Density .....	30,000 MTUs per DCU
DCU coverage .....	Up to 1square mile, depending on terrain and meter location
DCU-NCC Communication .....	Open architecture allows use of many communication networks, including radio, fiber-optic, power line carrier, and regular and cellular telephone

## COMPATIBILITY

The **STAR<sup>®</sup>** DCU supports MTUs servicing multiple utilities (gas, electric, and water).

NOTICE: The **STAR<sup>®</sup>** DCU complies with FCC requirements as a Part 15, Class A digital device. Hexagram reserves the right to change this product without prior notification. **STAR<sup>®</sup>** is a registered trademark of Hexagram, Inc. All software is property of Hexagram, Inc. Patents issued and pending.

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