

STAR[®]**Submetering****Automatic Meter****Reading System****STAR[®] Submetering Data Collection Units**

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



The **STAR[®]** 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[®] 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.



American Water & Energy Savers
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STAR[®] 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[®] DCU supports MTUs servicing multiple utilities (gas, electric, and water).

NOTICE: The STAR[®] 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[®] is a registered trademark of Hexagram, Inc. All software is property of Hexagram, Inc. Patents issued and pending.