Hersey® Meters

CCU5

Cell Control Unit 5

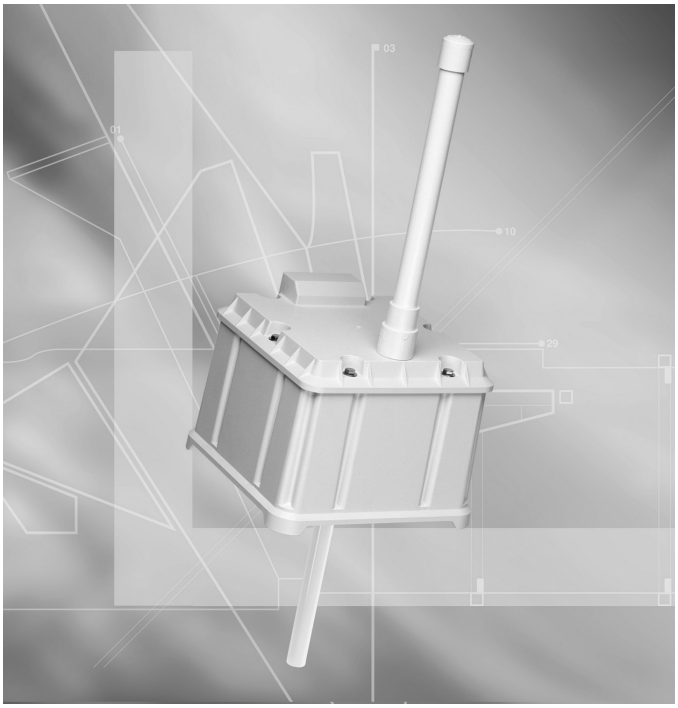
Features

FUNCTIONALITY PROFILE: The Itron Water Fixed Network 2.5 is a flexible, scalable wireless fixed network solution designed to collect, manage and deliver water usage data from water meters. The Cell Control Unit 5, or CCU5 is a Wide Area Network (WAN) data concentrator that reads the water usage data from the meters and moves that data to the next level in the system (headend).

For Automatic Meter Reading (AMR), the CCU5 collects data directly from Itron 200WP modules installed on meters. The CCU5 temporarily stores the metering-based data and forwards it to a host processor via the Wide Area Network (WAN). The CCU5 is designed with modularity in mind, allowing multiple types of WAN connections including General Packet Radio System (GPRS), public telephone and Ethernet. Please contact a Hersey® Meters sales representative for any additional WAN support information.

The CCU5 is typically mounted on power poles or water towers, buildings or other positions providing clear radio signals to both the 200WP Endpoints and the WAN. The CCU5 gathers readings that are processed according to application parameters assigned by the utility. The CCU5 communicates with the 200WP via radio frequency in the 1.4 GHz band. The CCU5 collects data within its communications area continuously from 200WP's that "bubble up" meter data on a programmed intervals. The CCU5 provides network operators with a high degree of flexibility.

The rules and parameters for processing the data can be assigned to each individual endpoint. The CCU5 manages the collection, processing, and storage of the endpoint data. The data is stored in the CCU5 until the configurable prescheduled push time occurs, or until command and control requests from the headend are received. Asynchronous events are processed as they occur. The CCU5 unit can be quickly and easily installed and is designed to deliver reliable performance in all types of outdoor environments.



Materials and Specifications

FUNCTIONAL

- GPRS modem for communication via wireless public WAN
- CCIT communication
- Ethernet communication
- Power source: Single-phase 120V
- Power cable is included with photocell adapter for street light mount
- Power connectors: watertight and keyed
- Backup battery: 16 VDC, 2.5 AH lead-acid
- Operating and storage temperatures: -40°C to +70°C (-40°F to +158°F) ambient
- GPRS modem operating and storage temperatures: -40°C to +60°C (-40°F to +140°F) ambient
- Operating humidity: 0 to 95% non-condensing relative humidity (telephone modem)
- Product life: 15 years
- Product identification: numeric and bar code CCU5 serial number
- Certification: meets or exceeds applicable ANSI C12.1 standards

REGULATORY & STANDARDS

- FCC compliance: Part 15 and Part 68 certified
- FCC, CFR 47, Part 15 Class A Certified
- FCC, CFR 47, Part 101 Certified

Materials and Specifications cont. on next page

Materials and Specifications cont.

OPERATIONAL

• Receive frequency: 1427 - 1432 MHz

PHYSICAL

• Dimension: 10.3” (26.2 cm) x 10.3” (26.2 cm) x 7.8” (19.8 cm)

• Weight: 16 lb. (7.26 kg) with battery

INSTALLATION METHODS

• Pole mount

• Street light mount with photocell power adapter

HOST PROCESSING SOFTWARE

• Itron Fixed Network 2.5

• Collection Engine

NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in industrial installations. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

• Reorient or relocate the receiving antenna.

• Increase the separation between the equipment and receiver.

• Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

• Consult the dealer or an experienced radio/TV technician for help.

• Changes or modifications not expressly approved by Itron could void the user’s authority to operate the equipment.

RF Exposure

Caution

To comply with FCC RF exposure compliance requirements, a separation distance of at least 5.0 cm must be maintained between the antenna of this device and all persons.

Electromagnetic Compatibility

Caution

Approved accessories only may be used with this equipment. In general all cables must be high quality, shielded, correctly terminated and normally restricted to 2 meters length. Unapproved modifications or operation beyond or in conflict with these instructions for use may void authorization by the authorities to operate the equipment.

USA

RADIO INTERFERENCE, FCC Statement

NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

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