

Cell Control Unit 5.1 (CCU5.1)



Functional:

GPRS modem for communication via wireless public WAN	
CCIT communication	
Ethernet communication	
Power source:	Single-phase 90-120 VAC
Power consumption:	35-40W (depending on backhaul)
Power connectors:	watertight and keyed
Backup battery:	12 VDC, 25 AH lead-acid, 8 hour capacity
Operating and storage temperatures:	-40°F to +140°F (-40°C to +60°C) ambient
GPRS modem operating and storage temperatures:	-22°F to +140°F (-30°C to +60°C) ambient
Operating humidity:	0 to 95% non-condensing relative humidity
Product design life:	15 years
Product identification:	numeric and bar code CCU51xx serial number

Regulatory & Standards:

FCC, RFR 47, Part 90 Compliance

Operational:

Transceiver frequency:	1427 - 1432 MHz
------------------------	-----------------

Weights and Dimensions

Transceiver enclosure (includes mounting bracket)	11" x 8.54" x 8.10" 14.75 lbs.
AC adapter enclosure (includes mounting bracket and battery)	17.75" x 9.81" x 7.16" 39.98lbs.
GPS/GPRS antenna enclosure	11.16" x 6.5" x 5.5" 4.39 lbs.
Total system (with single pole antenna)	70.34 lbs.

Installation Methods:

Pole mount
Streetlight mount with photocell power adapter
Remote antenna mount (tower installation)

Host Processing Software:

Itron Fixed Network 2.5
Itron FN Application Software Y2.3

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 radio-enabled water meters. The Cell Control Unit 5.1, or CCU5.1, is a wireless data concentrator that reads the consumption and usage profile data from the meter endpoints and moves that data to the Itron host processor (headend). The CCU5.1 gathers readings that are processed according to software application parameters assigned at the headend. The CCU5.1 communicates with 200W series endpoints via radio frequency in the 1.4 GHz band. The CCU5.1 collects data within its communications area continuously from 200W endpoints that "bubble up" meter data on a programmed schedule.

Powerful Two-Way Communications. The CCU5.1 collects consumption and profile data directly from 200W modules installed on meters and enables two-way communication from the headend to the endpoint. The concentrator temporarily stores the meter data and forwards it to a host processor via public or private wide area network (WAN).



The CCU5.1 is designed with modularity in mind, supporting multiple types of WAN connections including Wireless (WiFi), General Packet Radio System (GPRS) and Ethernet. The CCU5.1 is IP-addressable and interfaces with a wide range of WiFi equipment.

Flexible Installation and Maintenance. The CCU5.1 is typically mounted on radio or water towers, buildings or other elevated positions providing clear radio signals to both the 200W endpoints and the WAN. The collector's universal mounting bracket enables the concentrator unit, power supply and WAN to be fastened at ground-level for convenient maintenance while the remote-mounted antenna that communicates to the 200W endpoints can be installed in an elevated location. The CCU5.1 components can be quickly and easily installed and are designed to deliver reliable performance in all types of outdoor conditions.

Smart Choice. The CCU5.1 provides utilities with the highest degree of flexibility and control. The CCU5.1 can reprogram the 200W endpoints to collect data at regular intervals: daily, hourly, 30 minutes and 15 minutes. The CCU5.1 manages the collection, processing, and storage of the endpoint data. The data is stored in the CCU5.1 until the configurable prescheduled push time occurs, or until adhoc command and control requests from the headend are received. Asynchronous events are processed as they occur.

Elster AMCO Water, Inc.
PO Box 1852
Ocala, FL 34478-1852
United States

T +1 800 874 0890 (US)
T +1 866 703 7582 (Canada)
T +1 787 872 2006 (Caribbean)
F +1 352 368 1950

watermeters@us.elster.com
www.elster.com

© 2007 by Elster. All rights reserved.

The company's policy is one of continuous product improvement and the right is reserved to modify the specifications contained herein without notice. These products have been manufactured with current technology and in accordance with applicable AWWA Standards.

FN-CCU51/11-07