

Certification Exhibit

FCC ID: QHC-KVEVZE41

FCC Rule Part: 15.247

ACS Project Number: 14-0144

Manufacturer: Itron
Model: 570974-001

Manual



kV2c-AMPZE
User Information Manual
Itron Model 570974-001



Labeling

The following requirements will be applied to any products that use this module:

The end product label will include the following text:

Contains:
FCC ID: QHC-KVEVZE41
Model: 570974-001

The user's manual for any product that contains this module will contain the following test. If the device is large enough, this information will also be placed on the label:

"THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES. OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITIONS. (1) THIS DEVICE MAY NOT CAUSE HARMFUL INTERFERENCE, AND (2) THIS DEVICE MUST ACCEPT ANY INTERFERENCE RECEIVED, INCLUDING INTERFERENCE THAT MAY CAUSE UNDESIRE OPERATION."

Regulatory Compliance

The user's manual for any product that contains this module will contain the following text:

FCC Part 15, Class B

This equipment has been tested and found to comply with the limits for a Class B 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, 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.*



RF Exposure

The antennas used for this transmitter must be installed to provide a minimum separation distance of 20 cm from all persons, and must not be co-located or operate in conjunction with any other antenna or transmitter. End users and installers must be provided with antenna installation procedures and transmitter operating conditions for satisfying RF exposure compliance.

Miscellaneous

The user's manual for any product that contains this module will contain the following text:

Professional Installation

This module is intended for professional installation by the integrator. The OEM integrator is still responsible for the FCC compliance requirement of the end product which uses this module.

Modification and Repairs

To ensure FCC compliance and system performance, this device, antenna and/or coaxial assembly shall not be changed or modified without the express written approval of Itron. Any unauthorized modification will void the user's authority to operate the equipment.

WARNING! This device contains no user serviceable parts. Attempts to repair this device by unauthorized personnel may subject the person to shock hazard if removal of protective covers is attempted. Unauthorized repair will void the warranty and/or any maintenance contract with your company.

General Description

The Itron 570974-001 (kV2c-AMPZE) is an electricity metering module which includes a Cellular EVDO WAN module operating in the GSM 800 MHz and PCS 1900 MHz bands, a HAN transmitter operating in the 2.4 GHz band, and a LAN transmitter operating in the 900MHz ISM band. The module operates on direct current which is supplied by the host meter device.

ANTENNAS

WAN Antenna:

Under Glass Ribbon Gain:
+0 dBi 800 & 1900 band

PASSBAND: 824-894 Cellular Band & 1850-1990 PCS Band

External Mono-Pole Gain :
+3dBi 800 band
+4dBi 1900 band

PASSBAND: 824-894 Cellular Band & 1850-1990 PCS Band

HAN Antenna:

PCB antenna embedded in the module:
GAIN: +3.3dBi
PASSBAND: 2405 to 2480 MHz

LAN Antenna:

Slot antenna:
GAIN: 0dBi
PASSBAND: 900 to 990 MHz