



## WebGate® BPL - HomePlug iRIS IP Interface Integrated with the Sensus™ iCON™ Residential Meter

### WebGate BPL - HomePlug



For utilities and others deploying HomePlug-based BPL networks as part of Advanced Metering Infrastructure (AMI) projects, the WebGate BPL-HomePlug is a 'Just Plug It In' solution.

muNet WebGate technology enables the electric meter to connect to BPL networks and enables not only traditional electric metering applications, such as automated retrieval of kWh consumption, billing and interval data, and tamper detection, but also offers a wide range of options targeted at other utility applications.

All functionality is seamlessly handled via the BPL network by muNet's WebBot™ Central Control Web-based software.

## WebGate BPL - HomePlug iRIS IP Interface

- Integrated under the glass of the Sensus iCON meter
- Acquires time stamped interval metering data
- Stores data in non-volatile memory
- Transfers data via TCP/IP (HTTP) and XML protocols over HomePlug Networks
- Full two-way communication capability
- Instant on-demand reading capability
- Demand information
- Optional features (consult factory for additional details)
  - Records data from water and gas meters via wireless links
  - Controls a 200 Amp power disconnect switch (consult factory)
  - Collects voltage measurements
  - Enables demand-side management via ZigBee based Thermostat and relay control

## Metrology



### Family of Sensus iCON residential meters

- Accuracy exceeds ANSI C12.20 (Class 0.2)
- kWh energy measurement, net metering, voltage monitoring
- Inversion proof
- ANSI compliance in performance and design



## WebGate BPL - HomePlug iRIS IP Interface

### WebGate iRIS IP Interface

- Data Storage: > 24 hours \* 15 minute reads
- Web interface: Standard Web queries, XML replies
- IP addressing: Static, DHCP
- Clock: Real-time, no backup, time server synchronized
- Encryption: AES 128-Bit, optional

### WAN HomePlug

- 10/100 BaseT Ethernet (Connects directly to UTP)
- IEEE 802., IEEE 802.3u, HomePlug 1.0
- LEDs: Power,  
Powerline: Link, Activity  
Ethernet: Link, Activity  
Data Rate: Up to 14 Mbps

## Optional Features

### 200 Amp Disconnect Switch Control

- Current: 200A rating
- Relay type: Latching
- Options: Power reset button, LED

### Wireless Water and Gas Meter Link

- RF Option: Datamatic® FIREFLY®

### Wired Water and Gas Meter Link

- Encoder types: TouchRead, ProRead, or compatible
- Pulse initiator types: KYZ, or compatible

### Voltage Sensor - Metrology Based

- Type: Recent, Maximum, Minimum, Average
- Range:  
2S Meter : 192 -- 288 volts \*  
12S Meter: 96 -- 144 volts
- Accuracy: +/- 2%

## Metrology Specifications

### Power Requirements

- Voltage Rating: 2S 240V, 12S 120V
- Frequency: 60 Hz

### Accuracy

- Exceeds Accuracy Class 0.2

### Burden

- Power Supply < 0.8 watts/7.9VA @ 240VAC
- Voltage Circuit per phase: 0.03 watts @ 240VAC
- Current circuit per phase 0.1 milliohms Typical @ 25°C

### LCD Display

- Six-digit liquid crystal display
- Data digit height: 0.4
- Simulated mechanical disk emulation
- Power flow indicator
- kWh display with segment check option

### Operating Environment

- Temperature: -40° to +85°C
- Humidity: 0% to 95% non-condensing
- Transient / Surge Suppression:  
EN61000-4-4:1995 & EN61000-4-5:1995,  
exceed voltage and current surge requirements  
per Category 4

### Complies with Industry Standards

- ANSI C12.1 – 2001, ANSI C12.10 – 1997,
- ANSI C37.90.1 – 1989
- FCC Part 15

### Characteristic Data

- Starting Watts: 5
- Temperature Rise Specifications:  
Meets ANSI C12.1 Section 4.7.2.9

### Tamper Detection Options

- If meter is reversed in socket, energy is added
- Tamper message can alternate with kWh reading

### Models

Service	Class	Form
3-wire	200, 320	2S
3-wire	200	12S

Call about other Forms



Shown with 200 Amp  
Shutoff

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