muNet®

WebGate® Ethernet - FTTH iRIS IP Interface
Integrated with the GE™ I-210™ Residential Meter

WebGate
Ethernet-FTTH

For utilities and others deploying Ethernet, for example by Fiber To The Home (FTTH) as part of Advanced Metering Infrastructure (AMI) projects, the WebGate-Ethernet is a 'Plug and Play' solution.

muNet WebGate technology enables the electric meter to connect to Ethernet 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 network by muNet's WebBot™ Central Control Web-based software.

WebGate Ethernet - FTTH iRIS IP Interface

- Integrated under the glass of the GE I-210 meter
- Acquires time stamped interval metering data
- Stores data in non-volatile memory
- Transfers data via TCP/IP (HTTP) and XML protocols over Ethernet (FTTH) 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)
  - Enables demand-side management via ZigBee based Thermostat and relay control

Metrology

Family of GE I-210 residential meters
- Accuracy exceeds ANSI C12.20 (Class 0.5)
- kWh energy measurement, net metering, voltage monitoring
- Inversion proof
- ANSI compliance in performance and design

I-210 Singlephase Meter

WebGate Ethernet - FTTH iRIS IP Interface

WebGate iRIS IP Interface

• Data Storage: > 15 days * 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

Ethernet Enabled WebGate

• 10/100 BaseT Ethernet (Connects directly to UTP)

• auto-negotiation

• IEEE 802.3x Full-duplex flow control support

• LEDs: Link, Speed, Duplex

• IEEE 802.3u Compliant

Optional Features and Companion Products*

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®

muNet TotalAccess Load Management and In Home Customer Care Connections
Full range of features to engage utility customers and improve operational efficiencies

Thermostat
• Dimensions : 5.5" W x 3.75" H x 1.1" D
• Power: 24 VAC
• Programming: 5-1-1 programming
　　　　　　　　Heating and cooling

Customer Messaging
• Use with 200 Amp Disconnect to create a "Pre-Pay" with Customer notification system
• Add to Thermostat for Curtailment notifications

Discrete Switchs for In House Loads
• 240 VAC at 20 Amp Max In Conduit
• 120 VAC at 5 Amp Max Plug In

Metrology Specifications

Power Requirements
• Voltage Rating: 240 or 120VAC, +10%/-20%
• Frequency: 60 Hz (50Hz Available)

Accuracy
• Typical: +/- 0.2%

Burden
• Typical watt loss: 0.5W

LCD Display
• Five-digit liquid crystal display
• Simulated mechanical disk emulation
• Power flow indicator
• kWh display with segment check option

Operating Environment
• Temperature: -40° to +85°C

Complies with Industry Standards
• ANSI C12.1, ANSI C12.10, ANSI C12.20
• ANSI C37.90.1
• FCC Part 15

Characteristic Data
• Starting Watts: ≤ 5W (Form 2S, CL200)

Models

Service	Class	Form
3-wire	200, 320	2S
3-wire	20	4S
2-wire	100	1S
2-wire	20	3S

Call about other Forms

Tamper Detection Options
• If meter is reversed in socket, energy is added

Product Examples

WebGate – Meter	WebGate – Meter with 200 Amp Disconnect	Thermostat with Optional Messaging