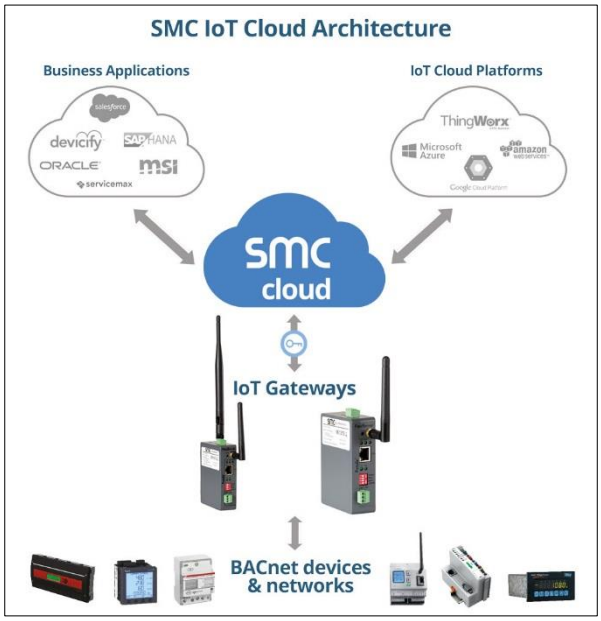
BACnet IoT Gateway

FieldServer Data Sheet – BACnet IoT Gateway FS-IOT-BACX **Rev. 1.B**

Overview

SMC's secure BACnet IoT Gateways are fully integrated with the SMC Cloud Platform. The gateways enable users to easily connect new and legacy BACnet devices to the cloud. These gateways connect BACnet devices and networks to the cloud via wired (Ethernet) and wireless (Wi-Fi or cell modem – support depends on model selected) installations. BACnet devices can instantly be cloud enabled to support secure remote device monitoring, control, data collection and alarming.

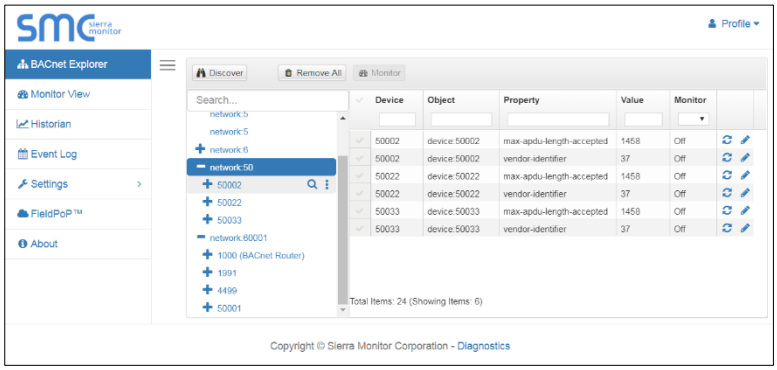


The gateways provide powerful device discovery and management across both serial and Ethernet BACnet networks. User tools enable easy gateway configuration to deliver BACnet objects to the cloud, either as individual devices or as filtered object groups.

SMC's BACnet IoT Gateways are the fastest and easiest way to cloud-enable BACnet products in the field as well as provide secure remote connectivity to installed fleets of BACnet devices. These gateways are delivered ready to discover, cloud connect and manage any BACnet devices without any programming or mapping (plug and play).

Benefits of the SMC BACnet IoT Gateway

- Deploy in an hour, not years.
- Eliminate all custom engineering development time and expense.
- Register gateways seamlessly through SMC's tenant based IoT Cloud Platform.
- Monitor and control any equipment connected to the cloud through a secure portal reducing field truck roll expenses.



BACnet Explorer

- Retrieve 30 days of data stored in the gateway by viewing the dashboard or download as csv, JSON or RESTful API.
- Generate cloud-based notifications/alarms via SMS and/or emails to keep users informed as soon as events occur.
- Includes a fully functional BACnet Explorer that allows user support teams to locally or remotely browse and command any of the devices on the BACnet network.
- On-board diagnostics allow easy troubleshooting for both serial and Ethernet communications.

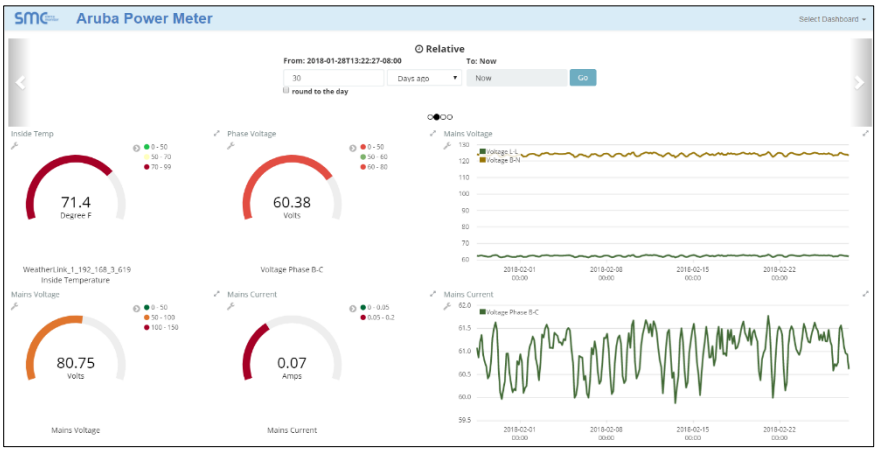
SMC IoT Cloud

- The SMC Cloud RESTful API allows device data to be available to 3rd party cloud platforms. The cloud platform has no firewall dependencies through HTTPS by utilizing TLS/SSL (Transport Layer Security/Secure Sockets Layer) to ensure data security - port 80 & 443.
- No annual subscription to connect SMC's Gateways to the SMC Cloud Platform for 50 data points per minute up to 2023.
- Firmware upgradable via SMC IoT Cloud with admin access.

SMC Cloud

SMC IoT Dashboard

- SMC's Cloud Platform Dashboard provides enriched data visualization. Features include data metrics (averages and real time values displayed in gauges and graphs) enabling collaboration and comparison of results across multiple sites.



SMC Cloud Dashboard

Ordering Information

- FS-IOT-BACW (Wi-Fi): one serial port model, includes Wi-Fi antenna.
- FS-IOT-BACC (cellular): one serial port model, includes Wi-Fi and cellular antennas.

BACnet IoT Gateway Hardware Specifications

Communication

Serial (Galvanic Isolation): RS-485/RS-232
Baud: 9600, 19200, 34800, 57600, 76800, 115000

Ethernet
10/100BaseT
MDIX
DHCP

Environment

Operating Temperature: -20 to 70ºC (-4 to 158ºF)
Relative Humidity: 10-95% RH non-condensing

Other

Web Configuration
Toolbox diagnostic utility
DIN rail mount included

Construction

Dimensions (HxWxD)
4 x 1.1 x 2.7 in (10.16 x 2.8 x 6.8cm)
Weight: 0.4 lbs (0.2 Kg)

Power Requirements

12-24 VDC
Current draw @ 12V: 240 mA

Approvals

CE and FCC Class B & C Part 15
TUV Approved to UL 60950
IC Canada
RoHS Compliant
PTCRB and CTIA

Radio Specifications

Wi-Fi 802.11 b/g/n

Frequency: 2.4 GHz
Channels: 1 to 11 (inclusive)
Antenna Type: SMA
Encryption: TKIP, WPA & AES

Cellular

Features: 3G & GPS
Antenna Type: SMA
Carriers: AT&T, Kore Telematics & Vodafone
HSDPA: Up to 21.0 Mbps
HSUPA: Up to 5.76 Mbps

Contact SMC Sales for an easy proof of concept evaluation. Contact sales@sierramonitor.com.