Kaiterra Sensedge Mini BACnet Protocol Implementation Conformance Statement (PICS)

NOVEMBER 2021

Date: November 18 2021
Vendor Name: Kaiterra
Product Name: Sensedge Mini
Product Model Number: SE-200, SE-200P
Firmware Revision: 0.8.2
BACnet Protocol Revision: 14

Product Description:

The Sensedge Mini is a sophisticated, commercial grade monitor that is optimized to meet the air quality needs of any indoor space. It provides accurate, secure, and continuous monitoring for commercial interiors, like offices, schools, hospitals, retails, and residences. The Sensedge Mini offers 24/7, real-time monitoring of your indoor air quality. Color-coded displays and indices of various pollutants allow for quick, at-a-glance readings.

The Sensedge Mini supports Wi-Fi (2.4G), Ethernet, and communication including an API from the cloud, as well as BACnet compatibility (depending on the version and firmware).

The Sensedge Mini supports the BACnet/IP protocol, and supports IPv4.
The UDP port is 47808(0xBAC0).

BACnet Standardized Device Profile (Annex L):

☐ **BACnet Operator Workstation (B-OWS)**

☐ **BACnet Advanced Operator Workstation (B-AWS)**

☐ **BACnet Operator Display (B-OD)**

☐ **BACnet Building Controller (B-BC)**

☐ **BACnet Advanced Application Controller (B-AAC)**

☐ **BACnet Application Specific Controller (B-ASC)**

■ **BACnet Smart Sensor (B-SS)**

☐ **BACnet Smart Actuator (B-SA)**

List all BACnet Interoperability Building Blocks Supported (Annex K):

DS-RP-B   DS-RPM-B   DM-DDB-B   DM-DOB-B   DS-COV-B

Segmentation Capability:

■ Able to transmit segmented messages   Window Size 1500

■ Able to receive segmented messages   Window Size 1500

Standard Object Types Supported:

An object type is supported if it may be present in the device. For each standard Object Type supported provide the following data:

Analog Input

Object Type	ID	Object Name
AnalogInput	1	PM2.5
AnalogInput	2	PM10
AnalogInput	3	TVOC
AnalogInput	4	Temperature
AnalogInput	5	Humidity
AnalogInput	6	CO2
Device	<user-specified-id>	"Kaiterra-SE-200"

Dynamically Creatable: No

Dynamically Deletable: No

Data Link Layer Options:

■ BACnet IP, (Annex J)

■ BACnet IP, (Annex J), Foreign Device

■ ISO 8802-3, Ethernet (Clause 7)

□ ATA 878.1, 2.5 Mb. ARCNET (Clause 8)

□ ATA 878.1, EIA-485 ARCNET (Clause 8), baud rate(s) _____

□ MS/TP master (Clause 9), baud rate(s):

□ MS/TP slave (Clause 9), baud rate(s):

□ Point-To-Point, EIA 232 (Clause 10), baud rate(s):

□ Point-To-Point, modem, (Clause 10), baud rate(s):

□ LonTalk, (Clause 11), medium: _____

□ BACnet/ZigBee (ANNEX O)

■ Other: Wi-Fi 2.4 GHz 802.11 b/g/n

Device Address Binding:

Is static device binding supported? (This is currently necessary for two-way communication with MS/TP slaves and certain other devices.) □ Yes ■ No

Character Sets Supported:

Indicating support for multiple character sets does not imply that they can all be supported simultaneously.

■ ISO 10646 (UTF-8)	□ IBM™/Microsoft™ DBCS	□ ISO 8859-1
□ ISO 10646 (UCS-2)	□ ISO 10646 (UCS-4)	□ JIS X 0208