



Kaiterra Sensedge Mini BACnet

Protocol Implementation Conformance Statement (PICS)

September 2026

Date:	September 2, 2026
Vendor Name:	Kaiterra
Vendor ID:	1307
Product Name:	Sensedge Mini
Product Model Number:	SE-200, SE-200P
Application Software Version:	2.6.5
Firmware Revision:	1.0
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.

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). The port is user-configurable.

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-WP-B

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

Segmentation Capability:

- | | |
|--|-----------------|
| ☐ Able to transmit segmented messages | Window Size n/a |
| ☐ Able to receive segmented messages | Window Size n/a |

Maximum APDU Length Accepted: 1476 octets

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:

1. Analog Input

Object Type	ID	Object Name
AnalogInput	0	Sec (Reserved, deprecated)
AnalogInput	1	PM2.5
AnalogInput	2	PM10
AnalogInput	3	TVOC
AnalogInput	4	Temperature
AnalogInput	5	Humidity
AnalogInput	6	CO2
AnalogInput	7	Unassigned
AnalogInput	8	KM20X Module Lifespan
AnalogInput	9	KM20X Module Lifespan
AnalogInput	10	O3
AnalogInput	11	Differential Pressure
AnalogInput	12	Flow Speed Pressure
AnalogInput	13	In-duct Module Lifespan
AnalogInput	14	NO2
AnalogInput	15	CO

Dynamically Creatable: NO

Dynamically Deletable: NO

Note: The AnalogInput objects present depend on the installed sensor modules. Object_List changes accordingly and Database_Revision is incremented, so clients should re-read Object_List when it changes. Instance numbers are fixed per measurement (see table above).

Optional Properties Supported:

- Description
- COV_Increment
- Reliability

Writable Properties:

- Units
- COV_Increment
- Out_Of_Service
- Present_Value (writable only while Out_Of_Service is TRUE; otherwise the device returns Write-Access-Denied)

Note: Units can only be changed for TVOC (ppb ↔ µg/m³) and Temperature (°C ↔ °F). A write of any other unit value is rejected with Error Code VALUE_OUT_OF_RANGE.

2. Device

Object Type	ID	Object Name
Device:	< user-specified-id >	"Kaiterra-SE-200"

Dynamically Creatable: NO

Dynamically Deletable: NO

Optional Properties Supported:

- Description
- Location
- Active_COV_Subscriptions

Writable Properties:

- Object_Identifier
- Object_Name
- Description
- Location
- APDU_Timeout
- Number_Of_APDU_Retries
- System_Status

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: _____

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

Networking Options:

- ☐ Router, Clause 6
- ☐ Annex H, BACnet Tunneling Router over IP
- ☐ BACnet/IP Broadcast Management Device (BBMD)
 - Does the BBMD support registrations by Foreign Devices? ☐ Yes ☐ No
 - Does the BBMD support network address translation? ☐ Yes ☐ No
- ☒ Foreign Device registration to a remote BBMD

Note: Foreign Device registration is sent to the BBMD on the same UDP port the device itself is configured to use.

Network Security Options:

- ☒ Non-secure Device
- ☐ Secure Device
- ☐ Multiple Application-Specific Keys
- ☐ Supports encryption (NS-ED BIBB)
- ☐ Key Server (NS-KS BIBB)

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 |