*BACnet supported via Wi-Fi/Ethernet

EXT-KA-SE200P

Contents

Protocol Implementation Conformance Statement – PICS

General information		
	Date	14.08.2023
	Product Name	EXT-KA-SE200P
	BACnet Protocol Revision	14
	Product Description	Indoor Air Quality sensor
	BACnet Standard Device Profile	BACnet Smart Sensor (B-SS)
	Segmentation capability	No
	Data Link Layer Options	BACnet IP, (Annex J) BACnet IP, (Annex J), Foreign Device
	Device Address Binding	No static device binding supported
	Character Sets Supported	ISO 10646 (UTF-8)
BACnet Interoperability Building Blocks supported BIBBs	Data sharing – ReadProperty-B (DS-RP-B) Data sharing – ReadPropertyMultiple-B (DS-RPM-B) Data sharing – WriteProperty-B (DS-WP-B) Data sharing – COV-B (DS-COV-B) Device management – DynamicDeviceBinding-B (DM-DDB-B) Device management – DynamicObjectBinding-B (DM-DOB-B)	
BACnet IP	Port	open (Default: 47'808 | 0xBAC0)
Parameterisation	Tool	through configuration app

⚠ EXT-KA-SE200P supports IPv4. BACnet IP is supported over Wi-Fi and Ethernet.
EXT-KA-SE200P does not support BACnet MS/TP.

Setting up BACnet through W-Fi network with configuration app:
1. Install configuration app on your smartphone. Please contact Local Sales for app file.

2. Turn on device (it will automatically enter configuration mode for 15 mins). The STATUS light will flash yellow during this time. If your device is not in configuration mode, please turn the device off and back on again.
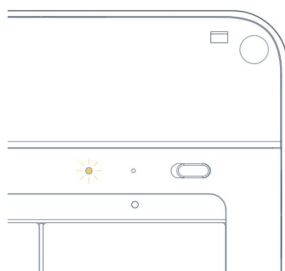
3. Open the "network settings" on your smartphone and look for the Wi-Fi network that starts with "Kaiterra". Connect to that network.

4. On configuration app, you can configure various settings, such as Device Name and WiFi network settings. For the Wi-Fi network settings, enter the Wi-Fi details to the applicable fields on configuration app:
• SSID
• Security type
• Password
• Network Type
• IP (manual mode only)
• Subnet mask (manual mode only)
• Gateway (manual mode only)

5. Configure Your BACnet Settings: Scroll down to the bottom part of configuration app and enter your BACnet ID (0~4194302) under the BACnet section. If this field is left empty, BACnet will be disabled.

**Setting up BACnet through Wi-Fi network with configuration app:**
5. (Cont) Once the BACnet ID field is filled in, additional fields will appear, such as BACnet Port, BBMD IP Address, etc. Fill these settings out as necessary.

Once configuration is complete, scroll to the bottom and click "Configure Device". The STATUS light on device will flash green during the pairing process and, if successful, the STATUS light will turn off. If the STATUS light begins to flash red, please repeat these steps to establish a proper connection.

Settings up BACnet through Ethernet Port with configuration app:
1. Connect Ethernet cable to device.
Run your Ethernet cable through the opening of the mounting plate and into the Ethernet port on the backside of the device. You should hear a "click" and see a green light on the cable port.
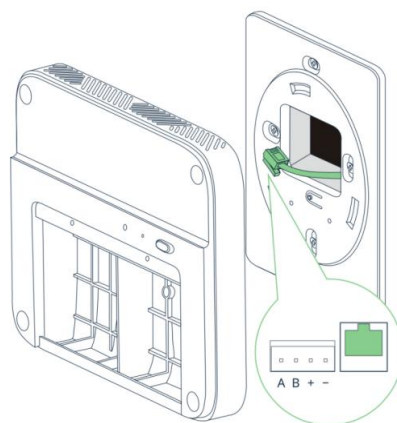
2. Turn on device (it will automatically enter configuration mode for 15 mins). The STATUS light will flash yellow during this time. If your device is not in configuration mode, please turn the device off and back on again.

3. Open the "network settings" on your smartphone and look for the Wi-Fi network that starts with "Kaiterra". Connect to that network.

4. On configuration app, you can configure various settings, such as Device Name and WiFi network settings. For the Wi-Fi network settings, enter the Wi-Fi details to the applicable fields on configuration app:
• IP
• Subnet mask
• Gateway

5. Configure Your BACnet Settings: Scroll down to the bottom part of configuration app and enter your BACnet ID (0~4194302) under the BACnet section. If this field is left empty, BACnet will be disabled.

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Standard Object Types Supported

Object type	ID	Object Name
Analog Input [AI]	1	PM2.5
Analog Input [AI]	2	PM10
Analog Input [AI]	3	TVOC
Analog Input [AI]	4	Temperature
Analog Input [AI]	5	Humidity
Analog Input [AI]	6	CO2
Analog Input [AI]	7	Unassigned
Analog Input [AI]	8	KM20X Module Lifespan
Analog Input [AI]	9	KM20X Module Lifespan

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

Dynamically Creatable: YES
Dynamically Deletable: YES

Optional Properties Supported:
Description
COV Increment
Reliability

Writable Properties:
Units
COV_Increment

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_Subscription

Writable Properties:
Object_Identifier
Object_Name
Description
Location
APDU_Timeout
Number_Of_APDU_Retries