

**Date:** 09.01.2014

**Vendor Name:** Oppermann  
Regelgeraete GmbH  
(Vendor ID: 609)

**Product Name:** FT-BAC

**Product Model Number:** FT-BAC-I-XXX

**Applications Software Version:** 0.30 **Firmware Revision:** 0.30

**BACnet Protocol Revision:** 9 **Autor:** Andreas Rempfer

**Product Description:**

Bacnet airflow and temperature sensor

**BACnet Standardized Device Profile (Annex L)**

	BACnet Operator Workstation (B-OWS)
	BACnet Building Controller (B-BC)
	BACnet Advanced Application Controller (B-AAC)
	BACnet Application Specific Controller (B-ASC)
X	BACnet Smart Sensor (B-SS)
	BACnet Smart Actuator (B-SA)

**List all BACnet Interoperability Building Blocks supported (see Annex K in BACnet Addendum 135d):**

DS-RP-B Read Property  
 DS-WP-B Write Property  
 DS-RPM-B ReadPropertyMultiple  
 DS-COV-B Change of Value  
 DM-DDB-B Dynamic Device Binding  
 DM-DOB-B Dynamic Object Binding  
 DM-RD-B ReinitializeDevice

**Which of the following device binding methods does the product support? (check one or more)**

	Send Who-Is, receive I-Am (BIBB DM-DDB-A)
X	Receive Who-Is, send I-Am (BIBB DM-DDB-B)
	Send Who-Has, receive I-Have (BIBB DM-DOB-A)
X	Receive Who-Has, send I-Have (BIBB DM-DOB-B)
	Manual configuration of recipient device's network number and MAC address
	None of the above

**Standard Object Types Supported:**

**Analog Input Object Type**

- 1. Dynamically creatable using BACnet's CreateObject service? No  
\_\_\_\_\_
- 2. Dynamically deletable using BACnet's DeleteObject service? No  
\_\_\_\_\_

3. List of optional properties supported:

Description Reliability COV-Increment Min-Pres-Value Max-Pres-Value Resolution
---

4. List of all properties that are writable where not otherwise required by this standard

Object_Name Description Present_Value (conditional) Out_Of_Service COV-Increment
--

5. List of proprietary properties:

Property Identifier	Property Datatype	Meaning

6. List of any property value range restrictions:

Property Identifier	Restrictions
Object_Name	max 63 characters
Description	max 63 characters
Analog-Input-0, Present-Value	min 0.0 max 20.0      Airflow, Meters-per-second
Analog-Input-0, COV-Increment	min 0.1 max 20.0      Airflow, Meters-per-second
Analog-Input-1, Present-Value	min -20.0 max 100.0    Temperature, Degrees-Celsius
Analog-Input-1, COV-Increment	min 0.1 max 100.0    Temperature, Degrees-Celsius
Analog-Input-2, Present-Value	min -4.0 max 212.0    Temperature, Degrees-Fahrenheit
Analog-Input-2, COV-Increment	min 0.1 max 216.0    Temperature, Degrees-Fahrenheit

List of object identifiers and their meaning in this device

Object ID	Object Name	Description	Unit	Comment
AI0	Flow	Airflow	m/s	supported statusflags: "fault" and "out of service"
AI1	Temperature_C	Temperature	°C	supported statusflags: "fault" and "out of service"
AI2	Temperature_F	Temperature	°F	supported statusflags: "fault" and "out of service"

**Device Object Type**

- 1. Dynamically creatable using BACnet's CreateObject service? No
- 2. Dynamically deletable using BACnet's DeleteObject service? No

3. List of optional properties supported:

Description
Location
Max_Master
Max_Info_Frame
Active_COV_Subscriptions

4. List of all properties that are writable where not otherwise required by this standard

Max_Master
Max_Info_Frame
Object_Name
Description
Location

5. List of proprietary properties:

Property Identifier	Property Datatype	Meaning

6. List of any property value range restrictions:

Property Identifier	Restrictions
Object_Name	max 63 characters
Description	max 63 characters
Location	max 63 characters  To set device-id, write “###” followed by the new device-id (Range 1 to 4194302) to property location. Device-id values 0 or larger than 4194302 will be ignored. Location string will remain unchanged.  Delivery status: DeviceID = MS/TP MAC ID
Max_Master	min 1 max 127
Max_Info_Frame	min 1 max 2

**Data Link Layer Options (check all that are supported):**

	BACnet IP, (Annex J)	
	BACnet IP, (Annex J), Foreign Device	
	ISO 8802-3, Ethernet (Clause 7)	
	ANSI/ATA 878.1, 2.5 Mb. ARCNET (Clause 8)	
	ANSI/ATA 878.1, RS-485 ARCNET (Clause 8), baud rate(s):	
X	MS/TP master (Clause 9), baud rate(s):	9k6 (default), 19k2, 38k4, 57k6, 76k8, 115k2
	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:	
	Other:	

**Networking Options (check all that are supported):**

	Router, Clause 6 - List all routing configurations (e.g. ARCNET-Ethernet, Ethernet-MS/TP, etc.):
	Annex H.3, BACnet Tunneling Router over UDP/IP
	BACnet/IP Broadcast Management Device (BBMD)
	BBMD supports registrations by Foreign Devices

**Segmentation Capability (check all that apply):**

Window Size

	Segmented requests supported	
	Segmented responses supported	

**Character Sets Supported (check all that apply):**

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

x	ANSI X3.4
	IBM™/Microsoft™ DBCS
	ISO 8859-1
	ISO 10646 (UCS-2)
	ISO 10646 (ICS-4)
	JIS C 6226

**If this product is a communication gateway, describe the non-BACnet equipment/network(s) that the gateway supports:**

N/A

Include any addition information about the product's BACnet capabilities relevant to interoperability:

**Reinitialize Device Password: "0000" (Warm start procedure is identical to cold start)**  
**Max. COV-Subscriptions: 64**  
**When selected, autobauding is executed once after power-on and after selection of baudrate setting "Auto" using operating panel**