Date: **30.04.2015**

Vendor Name: Oppermann Regelgeraete GmbH (Vendor ID: 609)
Product Name: PV-BAC-AD1
Product Model Number: VT-BAC-AD1-XXX
Applications Software Version: 0.10 **Firmware Revision:** 0.10
BACnet Protocol Revision: **9** **Autor:** Andreas Rempfer

Product Description:

Bacnet differential pressure and airflow 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 <u>all</u> 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 Description	max 63 characters max 63 characters	
Analog-Input-0, Present-Value	min -100.0 max 1050.0	Differential pressure, Pascals
Analog-Input-0, COV-Increment	min 1.0 max 1150.0	Differential pressure, Pascals
Analog-Input-1, Present-Value	min 0.0 max 99999.0	Volumetric Flow, Cubic-Meters-per-Hour
Analog-Input-1, COV-Increment	min 1.0 max 99999.0	Volumetric Flow, Cubic-Meters-per-Hour
Analog-Input-2, Present-Value	min 0.0 max 37.1	Supply Voltage, Volts
Analog-Input-2, COV-Increment	min 0.1 max 37.1	Supply Voltage, Volts

List of object identifiers and their meaning in this device

Object ID	**Object Name**	**Description**	**Unit**	**Comment**
AI0	Pressure	Differential Pressure	Pa	supported statusflags: “fault” and “out of service“
AI1	Volumetric Flow	Volumetric Airflow	m^3/h	supported statusflags: “fault” and “out of service“
AI2	Supply	Supply Voltage	V	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