

# FLEXUS BACnet Interface

Protocol Implementation Conformance Statement (PICS)

9-Aug-2016



Vendor Name: **Flexim Americas Corporation**  
Product Name: **ADM7407 and F704**  
Applications Software Version: **v1.23**  
Firmware Revision: **v1.23**  
BACnet Protocol Revision: **9**

## 1. Product Description

ADM is a meter capable of conveying measured values such as temperature, flow, thermal energy and volume to a BACnet network.

## 2. BACnet Standardized Device Profile (Annex L)

ADM supports the B-ASC profile.

## 3. BACnet Interoperability Building Blocks Supported (Annex K)

- DM-DDB-B, DM-DOB-B, DM-DCC-B,
- DS-RP-B, DS-WP-B, DS-RPM-B, and DS-COV-B

## 4. Segmentation Capability

ADM does not support segmentation.

## 5. Data Link Layer Options

MS/TP master (Clause 9): 9600, 19200, 38400, 57600, 76800, and 115200 baud

## 6. Device Address Binding

Static binding is fully supported.

## 7. Networking Options

ADM does not provide router or Annex H tunneling or BBMD functionality.

## 8. Character Sets Supported

ASCII

## 9. Standard Object Types Supported

No object types may be dynamically created or deleted.

No proprietary object types are supported.

ADM is capable of supporting the following object types:

- Analog Input
- Analog Value
- Device

## 10. Supported Properties

Writable properties are listed in **bold**.

### Device

Object Identifier, Object Type, **Object Name**, **Description**, System Status, Vendor Name, Vendor Identifier, Model Name, Firmware Revision, Application Software Revision, Protocol Version, Protocol Revision, Protocol Services Supported, Protocol Object Types Supported, Object List, Active COV Subscriptions, Max Master, Max Info Frames, Max APDU Length Accepted, Segmentation Supported, APDU Timeout, Number of APDU Retries, Device Address Binding, Database Revision

### Analog Input

Object Identifier, Object Type, Object Name, Description, Present Value, **Units**, Status Flags, Event State, Reliability, Out of Service, COV Increment

### Analog Value

Object Identifier, Object Type, Object Name, Description, **Present Value**, **Units**, Status Flags, Event State, Reliability, Out of Service, COV Increment

## 11. Value Restrictions

### Device

| Property Name | Value Restrictions |
|---------------|--------------------|
| Object Name   | Max. 36 characters |
| Description   | Max. 45 characters |

**Analog Input**

| <b>Instance</b> | <b>Property Name</b> | <b>Value Restrictions</b>  |
|-----------------|----------------------|--|
| 101             | Units                | 62,64  |
| 102             | Units                | 62,64  |
| 103             | Units                | 55,45700,56,45701,59,45702,45703   |
| 104             | Units                | 55,45700,56,45701,59,45702,45703   |
| 105             | Units                | 95   |
| 106             | Units                | 74,45704,45705,76  |
| 107             | Units                | 74,45704,45705,76  |
| 108             | Units                | 135,45706,165,85,45707,45708,136,88,87,45709,<br>45710,192,89,45711,45712,45713,45714,45715,<br>45716,45717,45718,191,84,142,45719,45720,45721,45722 |
| 111             | Units                | 135,45706,165,85,45707,45708,136,88,87,45709,45710,<br>192,89,45711,45712,45713,45714,45715,45716,45717,<br>45718,191,84,142,45719,45720,45721,45722 |
| 114             | Units                | 42,154,45729,156,44,43,42,45730,46,45,119,45731,45732  |
| 117             | Units                | 47,48,49,45734,157,45735,45736,52,45737,45738,45739,<br>22,45742,45743,45741,45740   |
| 120             | Units                | 95   |
| 121             | Units                | 199  |
| 122             | Units                | 199  |
| 123             | Units                | 98   |
| 124             | Units                | 98   |
| 125             | Units                | 98   |
| 126             | Units                | 45745  |
| 201             | Units                | 62,64  |
| 202             | Units                | 62,64  |
| 203             | Units                | 55,45700,56,45701,59,45702,45703   |
| 204             | Units                | 55,45700,56,45701,59,45702,45703   |
| 205             | Units                | 95   |
| 206             | Units                | 74,45704,45705,76  |
| 207             | Units                | 74,45704,45705,76  |
| 208             | Units                | 135,45706,165,85,45707,45708,136,88,87,45709,<br>45710,192,89,45711,45712,45713,45714,45715,<br>45716,45717,45718,191,84,142,45719,45720,45721,45722 |
| 211             | Units                | 135,45706,165,85,45707,45708,136,88,87,45709,45710,<br>192,89,45711,45712,45713,45714,45715,45716,45717,<br>45718,191,84,142,45719,45720,45721,45722 |
| 214             | Units                | 42,154,45729,156,44,43,42,45730,46,45,119,45731,45732  |
| 217             | Units                | 47,48,49,45734,157,45735,45736,52,45737,45738,45739,<br>22,45742,45743,45741,45740   |
| 220             | Units                | 95   |
| 221             | Units                | 199  |
| 222             | Units                | 199  |
| 223             | Units                | 98   |
| 224             | Units                | 98   |
| 225             | Units                | 98   |

|      |       |  |
|------|-------|--|
| 226  | Units | 45745  |
| 1008 | Units | 135,45706,165,85,45707,45708,136,88,87,45709,45710,192,89,45711,45712,45713,45714,45715,45716,45717,45718,191,84,142,45719,45720,45721,45722 |
| 1011 | Units | 135,45706,165,85,45707,45708,136,88,87,45709,45710,192,89,45711,45712,45713,45714,45715,45716,45717,45718,191,84,142,45719,45720,45721,45722 |
| 1014 | Units | 42,154,45729,156,44,43,42,45730,46,45,119,45731,45732  |
| 1017 | Units | 47,48,49,45734,157,45735,45736,52,45737,45738,45739,22,45742,45743,45741,45740   |

### Analog Value

| Instance | Property Name          | Value Restrictions   |
|----------|------------------------|--|
| 109      | Units<br>Present Value | 80,45723,45724,82,83,45725,45726,45727,197,79,45728<br>0.0           |
| 110      | Units<br>Present Value | 80,45723,45724,82,83,45725,45726,45727,197,79,45728<br>0.0           |
| 112      | Units<br>Present Value | 80,45723,45724,82,83,45725,45726,45727,197,79,45728<br>0.0           |
| 113      | Units<br>Present Value | 80,45723,45724,82,83,45725,45726,45727,197,79,45728<br>0.0           |
| 115      | Units<br>Present Value | 39,195,41,40,45733<br>0.0  |
| 116      | Units<br>Present Value | 39,195,41,40,45733<br>0.0  |
| 118      | Units<br>Present Value | 146,18,19,16,17,126,147,148,22,45741,45742,45743,<br>45744,20<br>0.0 |
| 119      | Units<br>Present Value | 146,18,19,16,17,126,147,148,22,45741,45742,45743,<br>45744,20<br>0.0 |
| 209      | Units<br>Present Value | 80,45723,45724,82,83,45725,45726,45727,197,79,45728<br>0.0           |
| 210      | Units<br>Present Value | 80,45723,45724,82,83,45725,45726,45727,197,79,45728<br>0.0           |
| 212      | Units<br>Present Value | 80,45723,45724,82,83,45725,45726,45727,197,79,45728<br>0.0           |
| 213      | Units<br>Present Value | 80,45723,45724,82,83,45725,45726,45727,197,79,45728<br>0.0           |
| 215      | Units<br>Present Value | 39,195,41,40,45733<br>0.0  |
| 216      | Units<br>Present Value | 39,195,41,40,45733<br>0.0  |
| 218      | Units<br>Present Value | 146,18,19,16,17,126,147,148,22,45741,45742,45743,<br>45744,20<br>0.0 |
| 219      | Units                  | 146,18,19,16,17,126,147,148,22,45741,45742,45743,<br>45744,20        |

|      |               |   |
|------|---------------|---|
|      | Present Value | 0.0   |
| 1009 | Units         | 80,45723,45724,82,83,45725,45726,45727,197,79,45728           |
|      | Present Value | 0.0   |
| 1010 | Units         | 80,45723,45724,82,83,45725,45726,45727,197,79,45728           |
|      | Present Value | 0.0   |
| 1012 | Units         | 80,45723,45724,82,83,45725,45726,45727,197,79,45728           |
|      | Present Value | 0.0   |
| 1013 | Units         | 80,45723,45724,82,83,45725,45726,45727,197,79,45728           |
|      | Present Value | 0.0   |
| 1015 | Units         | 39,195,41,40,45733  |
|      | Present Value | 0.0   |
| 1016 | Units         | 39,195,41,40,45733  |
|      | Present Value | 0.0   |
| 1018 | Units         | 146,18,19,16,17,126,147,148,22,45741,45742,45743,<br>45744,20 |
|      | Present Value | 0.0   |
| 1019 | Units         | 146,18,19,16,17,126,147,148,22,45741,45742,45743,<br>45744,20 |
|      | Present Value | 0.0   |