



DDC INTEROPERABLE DIFFUSERS

BACnet PICS

BACnet™ Protocol Implementation Conformance Statement

Vendor Name: "Acutherm"
Product Name: "THERMA-FUSER DIFFUSER"
Product Model Number:
Product Description: "VAV DIFFUSER"

BIBBs Supported:

```
{  
  DS-RP-B  
  DS-WP-B  
  DM-DDB-B  
  DM-DOB-B  
  DM-DCC-B  
  DM-RD-B  
}
```

BACnet Standard Application Services Supported:

```
{  
  ReadProperty           Execute  
  WriteProperty          Execute  
  DeviceCommunicationControl Execute  
  Who-Is                 Execute  
  Who-Has                Execute  
  I-Have                 Initiate  
  I-Am                   Initiate  
  ReinitializeDevice     Execute  
}
```

Standard Object-Types Supported:

```
{  
  Analog Input  
  Analog Value  
  Binary Value  
  Device  
}
```

Data Link Layer Option:

```
{  
  MS/TP master. Baud rate(s): 9600, 19200, 38400, 57600  
}
```

Character Sets Supported:

```
{  
  ANSI X3.4  
}
```

Special Functionality:

```
{
```

EF
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Maximum APDU size in octets: 50

}

List of Objects in Test Device:

{

{

```
object-identifier: (Device, 1234) W
object-name: "THERMA-FUSER DIFFUSER"
object-type: Device
system-status: operational
vendor-name: "Acutherm"
vendor-identifier: 576
model-name: "EF-B"
firmware-revision: "0.8.1"
application-software-version: "12.2012.SOSOSO"
protocol-version: 1
protocol-revision: 9
protocol-services-supported: (
  F,F,F,F,  -- ,,,,
  F,F,F,F,  -- ,,,,
  F,F,F,F,  -- ,,,,
  T,F,F,T,  -- Read-Property,,, Write-Property,
  F,T,F,F,  -- , Device-Communication-Control,,,
  T,F,F,F,  -- Reinitialize-Device,,,,
  F,F,F,F,  -- ,,,,
  F,F,F,F,  -- ,,,,
  F,T,T,F,  -- , Who-Has, Who-Is,,
  F,F,F,F  -- ,,,,
)
```

```
protocol-object-types-supported: (
  T,F,T,F,  -- Analog Input,, Analog Value,,
  F,T,F,F,  -- , Binary Value,,,
  T,F,F,F,  -- Device,,,,
  F,F,F,F,  -- ,,,,
  F,F,F,F,  -- ,,,,
  F,F,F,F,  -- ,,,,
  F,F,F,F,  -- ,,,,
  F,F,F,F,  -- ,,,,
  F,F,F,F,  -- ,,,,
  F,F  -- ,,
)
```

```
object-list: {
  (Device, 1234), (Binary Value, 0), (Binary Value, 1), (Binary Value, 2),
  (Analog Value, 0), (Analog Value, 1), (Analog Value, 2), (Analog Value, 3),
  (Analog Value, 4), (Analog Value, 5), (Analog Value, 6), (Analog Value, 7),
  (Analog Value, 8), (Analog Value, 9), (Analog Value, 10), (Analog Value, 11),
  (Analog Value, 12), (Analog Value, 13), (Analog Value, 14), (Analog Value,
15),
  (Analog Value, 16), (Analog Value, 17), (Analog Value, 18), (Analog Value,
19),
  (Analog Value, 20), (Analog Value, 21), (Analog Value, 22), (Analog Value,
23),
  (Analog Value, 24), (Analog Value, 25), (Analog Value, 26), (Analog Value,
27),
  (Analog Value, 28), (Analog Value, 29), (Analog Input, 0), (Analog Input, 1),
  (Analog Input, 2), (Analog Input, 3), (Analog Input, 4), (Analog Input, 5),
```

```
(Analog Input, 6), (Analog Input, 7), (Analog Input, 8), (Analog Input, 9),
(Analog Input, 10) }
max-apdu-length-accepted: 50
segmentation-supported: no-segmentation
apdu-timeout: 3000
number-of-APDU-retries: 3
device-address-binding: ?
database-revision: ?
database-revision: ?
location: "?" W
description: "VAV DIFFUSER"
max-master: 127 W
max-info-frames: 1 W
},
{
  object-identifier: (Analog Input, 0)
  object-name: "oRmTemp"
  object-type: Analog Input
  present-value: ?
  status-flags: {false,false,false,false}
  event-state: normal
  out-of-service: FALSE
  units: degrees-fahrenheit
},
{
  object-identifier: (Analog Input, 1)
  object-name: "oSATemp"
  object-type: Analog Input
  present-value: ?
  status-flags: {false,false,false,false}
  event-state: normal
  out-of-service: FALSE
  units: degrees-fahrenheit
},
{
  object-identifier: (Analog Input, 2)
  object-name: "oAirFlow"
  object-type: Analog Input
  present-value: ?
  status-flags: {true,false,false,false}
  event-state: normal
  out-of-service: FALSE
  units: cubic-feet-per-minute
},
{
  object-identifier: (Analog Input, 3)
  object-name: "oEffectStpt"
  object-type: Analog Input
  present-value: ?
  status-flags: {false,false,false,false}
  event-state: normal
  out-of-service: FALSE
  units: degrees-fahrenheit
},
{
  object-identifier: (Analog Input, 4)
```

```
    object-name: "oTmnlLoad"
    object-type: Analog Input
    present-value: ?
    status-flags: {false,false,false,false}
    event-state: normal
    out-of-service: FALSE
    units: percent
  },
  {
    object-identifier: (Analog Input, 5)
    object-name: "oDbg1"
    object-type: Analog Input
    present-value: ?
    status-flags: {false,false,false,false}
    event-state: normal
    out-of-service: FALSE
    units: no-units
  },
  {
    object-identifier: (Analog Input, 6)
    object-name: "oDbg2"
    object-type: Analog Input
    present-value: ?
    status-flags: {false,false,false,false}
    event-state: normal
    out-of-service: FALSE
    units: no-units
  },
  {
    object-identifier: (Analog Input, 7)
    object-name: "oDbg3"
    object-type: Analog Input
    present-value: ?
    status-flags: {false,false,false,false}
    event-state: normal
    out-of-service: FALSE
    units: no-units
  },
  {
    object-identifier: (Analog Input, 8)
    object-name: "oDbg4"
    object-type: Analog Input
    present-value: ?
    status-flags: {false,false,false,false}
    event-state: normal
    out-of-service: FALSE
    units: no-units
  },
  {
    object-identifier: (Analog Input, 9)
    object-name: "oDbg5"
    object-type: Analog Input
    present-value: ?
    status-flags: {false,false,false,false}
    event-state: normal
    out-of-service: FALSE
```

```
    units: no-units
  },
  {
    object-identifier: (Analog Input, 10)
    object-name: "oDbg6"
    object-type: Analog Input
    present-value: ?
    status-flags: {false,false,false,false}
    event-state: normal
    out-of-service: FALSE
    units: no-units
  },
  {
    object-identifier: (Analog Value, 0)
    object-name: "cMaxFlow"
    object-type: Analog Value
    present-value: ? W
    status-flags: {false,false,false,false}
    event-state: normal
    out-of-service: FALSE
    units: cubic-feet-per-minute
  },
  {
    object-identifier: (Analog Value, 1)
    object-name: "cMinFlow"
    object-type: Analog Value
    present-value: ? W
    status-flags: {false,false,false,false}
    event-state: normal
    out-of-service: FALSE
    units: cubic-feet-per-minute
  },
  {
    object-identifier: (Analog Value, 2)
    object-name: "cMinStbyFlow"
    object-type: Analog Value
    present-value: ? W
    status-flags: {false,false,false,false}
    event-state: normal
    out-of-service: FALSE
    units: cubic-feet-per-minute
  },
  {
    object-identifier: (Analog Value, 3)
    object-name: "cCO2sp"
    object-type: Analog Value
    present-value: ? W
    status-flags: {false,false,false,false}
    event-state: normal
    out-of-service: FALSE
    units: parts-per-million
  },
  {
    object-identifier: (Analog Value, 4)
    object-name: "cOccCoolsp"
    object-type: Analog Value
```

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```

    present-value: ? W
    status-flags: {false,false,false,false}
    event-state: normal
    out-of-service: FALSE
    units: degrees-fahrenheit
  },
  {
    object-identifier: (Analog Value, 5)
    object-name: "cUncCoolsp"
    object-type: Analog Value
    present-value: ? W
    status-flags: {false,false,false,false}
    event-state: normal
    out-of-service: FALSE
    units: degrees-fahrenheit
  },
  {
    object-identifier: (Analog Value, 6)
    object-name: "cStndbyCoolsp"
    object-type: Analog Value
    present-value: ? W
    status-flags: {false,false,false,false}
    event-state: normal
    out-of-service: FALSE
    units: degrees-fahrenheit
  },
  {
    object-identifier: (Analog Value, 7)
    object-name: "cOccHeatsp"
    object-type: Analog Value
    present-value: ? W
    status-flags: {false,false,false,false}
    event-state: normal
    out-of-service: FALSE
    units: degrees-fahrenheit
  },
  {
    object-identifier: (Analog Value, 8)
    object-name: "cUncHeatsp"
    object-type: Analog Value
    present-value: ? W
    status-flags: {false,false,false,false}
    event-state: normal
    out-of-service: FALSE
    units: degrees-fahrenheit
  },
  {
    object-identifier: (Analog Value, 9)
    object-name: "cStndbyHeatsp"
    object-type: Analog Value
    present-value: ? W
    status-flags: {false,false,false,false}
    event-state: normal
    out-of-service: FALSE
    units: degrees-fahrenheit
  },

```

```
{
  object-identifier: (Analog Value, 10)
  object-name: "cStPtLimit"
  object-type: Analog Value
  present-value: ? W
  status-flags: {false,false,false,false}
  event-state: normal
  out-of-service: FALSE
  units: degrees-fahrenheit
},
{
  object-identifier: (Analog Value, 11)
  object-name: "cStPtReset"
  object-type: Analog Value
  present-value: ? W
  status-flags: {false,false,false,false}
  event-state: normal
  out-of-service: FALSE
  units: degrees-fahrenheit
},
{
  object-identifier: (Analog Value, 12)
  object-name: "cMaxHeatsp"
  object-type: Analog Value
  present-value: ? W
  status-flags: {false,false,false,false}
  event-state: normal
  out-of-service: FALSE
  units: percent
},
{
  object-identifier: (Analog Value, 13)
  object-name: "cHCMode"
  object-type: Analog Value
  present-value: ? W
  status-flags: {false,false,false,false}
  event-state: normal
  out-of-service: FALSE
  units: no-units
},
{
  object-identifier: (Analog Value, 14)
  object-name: "cBaudrate"
  object-type: Analog Value
  present-value: ? W
  status-flags: {false,false,false,false}
  event-state: normal
  out-of-service: FALSE
  units: no-units
},
{
  object-identifier: (Analog Value, 15)
  object-name: "cVacSpOfst"
  object-type: Analog Value
  present-value: ? W
  status-flags: {false,false,false,false}
```

```
    event-state: normal
    out-of-service: FALSE
    units: degrees-fahrenheit
  },
  {
    object-identifier: (Analog Value, 16)
    object-name: "cRmOffset"
    object-type: Analog Value
    present-value: ? W
    status-flags: {false,false,false,false}
    event-state: normal
    out-of-service: FALSE
    units: degrees-fahrenheit
  },
  {
    object-identifier: (Analog Value, 17)
    object-name: "cSAOffset"
    object-type: Analog Value
    present-value: ? W
    status-flags: {false,false,false,false}
    event-state: normal
    out-of-service: FALSE
    units: degrees-fahrenheit
  },
  {
    object-identifier: (Analog Value, 18)
    object-name: "cFlowOffset"
    object-type: Analog Value
    present-value: ? W
    status-flags: {false,false,false,false}
    event-state: normal
    out-of-service: FALSE
    units: no-units
  },
  {
    object-identifier: (Analog Value, 19)
    object-name: "cFlowScaler"
    object-type: Analog Value
    present-value: ? W
    status-flags: {false,false,false,false}
    event-state: normal
    out-of-service: FALSE
    units: no-units
  },
  {
    object-identifier: (Analog Value, 20)
    object-name: "cFBoffset"
    object-type: Analog Value
    present-value: ? W
    status-flags: {false,false,false,false}
    event-state: normal
    out-of-service: FALSE
    units: no-units
  },
  {
    object-identifier: (Analog Value, 21)
```



```

    object-name: "iOccMode"
    object-type: Analog Value
    present-value: ? W
    status-flags: {false,false,false,false}
    event-state: normal
    out-of-service: FALSE
    units: no-units
  },
  {
    object-identifier: (Analog Value, 22)
    object-name: "iHMode"
    object-type: Analog Value
    present-value: ? W
    status-flags: {false,false,false,false}
    event-state: normal
    out-of-service: FALSE
    units: no-units
  },
  {
    object-identifier: (Analog Value, 23)
    object-name: "iTempSetpt"
    object-type: Analog Value
    present-value: ? W
    status-flags: {false,false,false,false}
    event-state: normal
    out-of-service: FALSE
    units: degrees-fahrenheit
  },
  {
    object-identifier: (Analog Value, 24)
    object-name: "iFlowSetpt"
    object-type: Analog Value
    present-value: ? W
    status-flags: {false,false,false,false}
    event-state: normal
    out-of-service: FALSE
    units: cubic-feet-per-minute
  },
  {
    object-identifier: (Analog Value, 25)
    object-name: "iOverride"
    object-type: Analog Value
    present-value: ? W
    status-flags: {false,false,false,false}
    event-state: normal
    out-of-service: FALSE
    units: no-units
  },
  {
    object-identifier: (Analog Value, 26)
    object-name: "iRmTemp"
    object-type: Analog Value
    present-value: ? W
    status-flags: {false,false,false,false}
    event-state: normal
    out-of-service: FALSE
  }

```

```
    units: degrees-fahrenheit
  },
  {
    object-identifier: (Analog Value, 27)
    object-name: "iSATemp"
    object-type: Analog Value
    present-value: ? W
    status-flags: {false,false,false,false}
    event-state: normal
    out-of-service: FALSE
    units: degrees-fahrenheit
  },
  {
    object-identifier: (Analog Value, 28)
    object-name: "iFlowRate"
    object-type: Analog Value
    present-value: ? W
    status-flags: {false,false,false,false}
    event-state: normal
    out-of-service: FALSE
    units: cubic-feet-per-minute
  },
  {
    object-identifier: (Analog Value, 29)
    object-name: "iCO2Level"
    object-type: Analog Value
    present-value: ? W
    status-flags: {false,false,false,false}
    event-state: normal
    out-of-service: FALSE
    units: parts-per-million
  },
  {
    object-identifier: (Binary Value, 0)
    object-name: "iVacncyMode"
    object-type: Binary Value
    present-value: ? W
    status-flags: {false,false,false,false}
    event-state: normal
    out-of-service: FALSE
  },
  {
    object-identifier: (Binary Value, 1)
    object-name: "iPowerDbg"
    object-type: Binary Value
    present-value: ? W
    status-flags: {false,false,false,false}
    event-state: normal
    out-of-service: FALSE
  },
  {
    object-identifier: (Binary Value, 2)
    object-name: "iFlowDbg"
    object-type: Binary Value
    present-value: ? W
    status-flags: {false,false,false,false}
```

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```
    event-state: normal
    out-of-service: FALSE
  }
}
End of BACnet Protocol Implementation Conformance Statement
```