



**ECB-STAT-ZN SERIES**

**PROTOCOL IMPLEMENTATION CONFORMANCE STATEMENT (PICS)**

LAST REVISION: SEPTEMBER 14, 2010

**Vendor Name:** Distech Controls Inc  
**Product Name:** ECB-STAT-ZN Series  
**Product Model Number:** ECB-STAT-ZA, ECB-STAT-ZF,  
**Product Version:** 2.5.06  
**BACnet Protocol Revision:** 2 (135-2001)

**Product Description**

The ECB-STAT-ZN series represents a thermostat family specifically designed to handle zoning applications.

With three configurable inputs and one configurable auxiliary output, many advanced control functions are possible. In addition, either two analog or two floating control outputs are available, depending on the thermostat model. All thermostats can average temperature readings from remote sensors, as well as provide advanced active occupancy logic through an optional attachable PIR motion detector cover.

**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)
- BACnet Smart Sensor (B-SS)
- BACnet Smart Actuator (B-SA)

## BACnet Interoperability Building Blocks Supported (Annex K):

| BACnet Interoperability Building Block                    | Supported                           |
|---|-------------------------------------|
| Data Sharing-ReadProperty-B (DS-RP-B)                     | <input checked="" type="checkbox"/> |
| Data Sharing-ReadPropertyMultiple-B (DS-RPM-B)            | <input checked="" type="checkbox"/> |
| Data Sharing-WriteProperty-B (DS-WP-B)                    | <input checked="" type="checkbox"/> |
| Device Management-Dynamic Device Binding-B (DM-DDB-B)     | <input checked="" type="checkbox"/> |
| Device Management-Dynamic Object Binding-B (DM-DOB-B)     | <input checked="" type="checkbox"/> |
| Device Management-DeviceCommunicationControl-B (DM-DCC-B) | <input checked="" type="checkbox"/> |

## Segmentation Capability:

Segmented Requests Supported  Window Size: N/A  
 Segmented Responses Supported  Window Size: N/A

## Standard Object Types Supported:

| Object Type       | Supported                           | Dynamically Creatable    | Dynamically Deletable    | Optional Properties Supported               | Writable Properties   |
|-------------------|-------------------------------------|--------------------------|--------------------------|---|---|
| Analog Input      | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Reliability                                 | Out_of_Service  |
| Analog Value      | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Reliability                                 | Present_Value <sup>a</sup><br>Out_of_Service <sup>a</sup><br>Object_Name <sup>b</sup> |
| Binary Input      | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Reliability<br>Active_Text<br>Inactive_Text | Out_of_Service  |
| Binary Value      | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Reliability<br>Active_Text<br>Inactive_Text | Present_Value<br>Out_of_Service   |
| Device            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Max_Master<br>Max_Info_frames               | Object_Identifier<br>Object_name<br>Max_Master  |
| Group             | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | N/A   | N/A   |
| Multi-state Value | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Reliability<br>States_Text                  | Present_Value <sup>c</sup><br>Out_of_Service <sup>c</sup>                             |

a : Present\_Value and Out\_of\_Service properties are writable for every AV objects except :

- PI Heating Demand (AV21)
- PI Cooling Demand (AV22)

b : Present\_Value property for Room Temperature (AV7) is writable only if Room Temp Override (BV8) is enabled.

c : Object\_Name property is writable for the following object only :

- Room Temperature (AV7)

d : Present\_Value and Out\_of\_Service properties are writable for every MV objects except :

- Heating Valve Status (MV26)
- Cooling Valve Status (MV27)

**Data Link Layer Options:**

- BACnet IP, (Annex J)
- BACnet IP, (Annex J), Foreign Device
- ISO 8802-3, Ethernet (Clause 7) (10Base2, 10Base5, 10BaseT, Fiber)
- ANSI/ATA 878.1, 2.5 Mb. ARCNET (Clause 8)
- ANSI/ATA 878.1, RS-485 ARCNET (Clause 8), baud rate(s):
- MS/TP master (Clause 9), baud rate(s): 9600, 19200, 38400, 76800 (Auto Baud)
- 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:

**Device Address Binding:**

Is static device binding supported?  Yes  No  
(Necessary for two-way communication with MS/TP slaves and certain other devices.)

**Networking Options:**

|   |     |
|---|-----|
| Router  | N/A |
| Annex H, BACnet Tunnelling                              | N/A |
| BACnet/IP Broadcast Management Device (BBMD)            | N/A |
| Does the BBMD support registrations by Foreign Devices? | N/A |

**Character Sets Supported:**

- |   |   |                                     |
|---|---|-------------------------------------|
| <input checked="" type="checkbox"/> ANSI X3.4 | <input type="checkbox"/> IBM/Microsoft DBCS | <input type="checkbox"/> JIS C 6226 |
| <input type="checkbox"/> ISO 10646 (ICS-4)    | <input type="checkbox"/> ISO 10646 (UCS2)   | <input type="checkbox"/> ISO 8859-1 |

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

Not applicable.