BACnet Protocol Implementation Conformance Statement

Date	**04, November, 2020**
Vendor Name	**Meitav-tec LTD**
Product Name	**Configurable Terminal Unit Controller with BACnet Communication**
Product Model Number	**CTU2500-x^1-x^2-x^3-x^4** **CTU2501- x^1-x^2-x^3-x^4** **CTU2524- x^1-x^2-x^3-x^4** **CTU2601- x^1-x^2-x^3-x^4** **CTU2646- x^1-x^2-x^3-x^4** **CTU2701- x^1-x^2-x^3-x^4** **x^1 is 3, 3S, AC, C1, C2, C3, FC, CP, H1, H3, IRD, P, P2, PM2, WS, null** **x^2 is 01, 1S, 3S, ABILITY, ECM, FC, H1, H2, H3, H4, HP, IRD, SUPER, null** **x^3 is 01, 02, 24, AHU, DIM, EC, FA, FC, HCP, HU, MGD, ST1, SUPER, T4, TRAFO, TVA, VAV, null** **x^4 is VFS, BT, HU, PE, 110V, WET, 24VAC, OUT12, FAN, 190988, DIM, F, 115V, 24V, IN, GES, null** **Abbreviates below as "CTU2…"**
Firmware Revision BACnet	**20185424**
BACnet Protocol Revision	**19**

Product Description

The "CTU2…" series are a Configurable Terminal Unit Controllers designed to control various HVAC applications.
The "CTU2…" series operates and controls Analog Inputs, Analog Values, Analog Outputs, Digital Inputs, Digital Values and Digital Outputs.
The series is designed to control HVAC applications such as Fan-Coil, D/X Air Conditioners, Chilled and Heated Beams, Variable Air Volume, Multi-Zone, Water Source Heat Pump and more.
The outputs of the "CTU2…" are On/Off, proportional 0-10V, PWM, 4-20mA.
Wall panels and Remote control interface may operate the controller by the end-users.
The device can be configured by the installer without the need of a PC and software tool, using a set of on-board dip-switches.
The series is designed for field installation in a panel or enclosure or for mounting by original equipment manufacturers (OEMs) on DIN-rail or directly on a surface.

The BACnet interface of the controllers complies with the ANSI/ASHRAE Standard 135-2016 for sharing data with other devices on the network.

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)

Data Sharing		
DS-RP-B	ReadProperty-B	**K.1.2**
DS-RPM-B	ReadPropertyMultiple-B	**K.1.4**
DS-WP-B	WriteProperty-B	**K. 1.8**

Device & Network Management		
DM-DDB-B	I Am	**K.5.2**
DM-DDB-B	Who Is	**K.5.2**
DM-DOB-B	I Have	**K.5.4**
DM-DOB-B	Who Has	**K.5.4**
DM-DCC-B	Device Communication Control	**K.5.6**
DM-RD-B	Reinitialize Device	**K.5.16**

Segmentation Capability

- ☐ Segmented response supported Window Size 1
- ☐ Segmented request supported Window Size N

Table 3 – Standard Object Types Supported

Object	Create	Delete	Optional Properties	Writeable Properties	Proprietary Properties
Analog Input	No	No	Description	Present Value, Description, Out-Of-Service	
Analog Output	No	No	Description	Description, Present Value	
Analog Value	No	No	Description, Priority Array, Current Command Priority, Relinquish Default.	Present Value, Description	
Binary Input	No	No	Description	Description	
Binary Output	No	No	Description	Description, Present Value	
Binary Value	No	No	Description, Priority Array, Current Command Priority, Relinquish Default	Present Value, Description	
Device	No	No	Location, Description, Max-Master, Max-Info-Frames APDU-Timeout, Number-Of-APDU-retries	Location, Description, Max-Master, Max-Info-Frames, APDU-Timeout, Number-Of-APDU-retries	
Network port	No	No	Max-Master, Max-Info-Frames, MAC-Address, Link-Speed-Autonegotiate	Max-Master, Max-Info-Frames	

Data Link Layer Options:

☐ 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)

☑ MS/TP master (Clause 9), baud rate(s): 9600,19200,38400, 76800

☐ 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?*

**This is currently necessary for two-way communication with MS/TP slaves and certain other devices.*

Networking Options

☐ BACnet/IP Broadcast Management Device (BBMD)

☐ Router, Clause 6-List all routing configurations, e.g., ARCNET-Ethernet, Ethernet-MS/TP, etc.

☐ Annex H, BACnet tunneling router over IP

Does the BBMD support registrations by foreign devices? ☐ Yes ☒ No

Character Sets Supported

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

☑ ANSI X3.4

☐ IBM™/Microsoft™ DBCS

☐ ISO 8859-1

☐ ISO 10646 (UCS-2)

☐ ISO 10646 (UCS-4)

☐ JIS C 6226

Gateway To

N/A