Series CDTA and CDTC Communicating Carbon Dioxide Detector

BACnet Protocol Implementation Conformance Statement

Date	12/18/2013	**Vendor Name**	Dwyer Instruments, Inc.
Product Name	CDTA, CDTC	**Application Software Version**	1.6
Product Module Number	CDTA-2N000(-LCD) CDTA-5N000(-LCD) CDTC-2N000(-LCD) CDTC-5N000(-LCD)	**Firmware Revision**	1.5
Product Description	All-in-One CO2/RH/ Temp /SetPoint IAQ	**BACnet Protocol Revision**	12

BACnet Standardized Device Profile (Annex L): BACnet Application Specific Controller (B-ASC)

List all BACnet Interoperability Building Blocks Supported (Annex K):

DS-RP-B	**DS-RPM-B**
DS-WP-B	**DS-COV-B**
DM-DDB-B	**DM-DOB-B**
DM-DCC-B	**DM-RD-B**

Segmentation Capability: None
Standard Object Types Supported: (See Table 1)

Data Link Layer Options:
MS/TP master (Clause 9), baud rate(s): 9600, 19200, 38400, 57600, 76800, 115200

Device Address Binding:
Is static device binding supported? (This is currently necessary for two-way communication with MS/TP slaves and certain other devices.) ☐ Yes ☒ No

Networking Options: None

Network Security Options: Non-secure Device - is capable of operating without BACnet Network Security

Character Sets Supported: ISO 10646 (UTF-8)

Gateway: This product does not support gateway functionality for any types of non-BACnet equipment/network(s).

TABLE 1: STANDARD OBJECT TYPES SUPPORTED						
Object	**Create Object Service**	**Delete Object Service**	**Optional Properties Supported**	**Writable Properties**	**Proprietary Properties**	**Property Range Restrictions**
Device 607xxx – “CDTA IAQ 607xxx”. Where xxx defaults to the selected MS/TP address.	No	No	Description, Location, Max_Master, Max_Info_Frames, Active_COV_Subscriptions	Description, Location, Max_Master, Max_Info_Frames, Object_Identifier, Object_Name, APDU_Timeout, Number_Of_APDU_Retries	1000 (Serial Number)	String length maximum 32 characters
Analog Input 1 – “CO2 Concentration”	No	No	Reliability, COV_Increment	Out_Of_Service, COV_Increment	None	Units: parts-per-million, Range depends on model
Analog Input 2 – “Relative Humidity”	No	No	Reliability, COV_Increment	Out_Of_Service, COV_Increment	None	Units: percent-relative-humidity
Analog Input 3 – “Temperature”	No	No	Reliability, COV_Increment	Out_Of_Service, Units, COV_Increment	None	Units: Celsius or Fahrenheit
Analog Value 1 – “Set Point”	No	No	Reliability	Present_Value, Out_Of_Service, Units	None	Units: Celsius or Fahrenheit 0-50°C
Analog Value 2 – “Set Point Low Limit”	No	No	Reliability	Present_Value, Out_Of_Service, Units	None	Units: Celsius or Fahrenheit 0-50°C
Analog Value 3 – “Set Point High Limit”	No	No	Reliability	Present_Value, Out_Of_Service, Units	None	Units: Celsius or Fahrenheit 0-50°C
Analog Value 4 – “Dew Point”	No	No	Reliability	Out_Of_Service, Units	None	Units: Celsius or Fahrenheit
Analog Value 5 – “Wet Bulb”	No	No	Reliability	Out_Of_Service, Units	None	Units: Celsius or Fahrenheit
Analog Value 6 – “Specific Enthalpy”	No	No	Reliability	Out_Of_Service, Units	None	Units: kilojoules-per-kilogram-dry-air or btus-per-pound-dry-air
Analog Value 7 – “Display Mode”	No	No	Reliability	Present_Value, Out_Of_Service	None	Units: No-units Integer values 0 – 7
Analog Value 8 – “CO2 Offset”	No	No	Reliability	Present_Value, Out_Of_Service	None	Units: parts-per-million, ±500ppm
Analog Value 9 – “Barometric Pressure”	No	No	Reliability	Present_Value, Out_Of_Service, Units	None	Units: hectopascals or inches-of-mercury 677-1016 hPa
Analog Value 10 – “Relative Humidity Offset”	No	No	Reliability	Present_Value, Out_Of_Service	None	Units: Percent-relative-humidity ±30% in 0.1% increments
Analog Value 11 – “Temperature Offset”	No	No	Reliability	Present_Value, Out_Of_Service, Units	None	Units: Celsius or Fahrenheit ±30° in 0.1° increments
Binary Value 1 – “Override”	No	No	Reliability	Present_Value, Out_Of_Service	None	None
Binary Value 2 – “Use SI Units	No	No	Reliability	Present_Value, Out_Of_Service	None	Active = SI Units, Inactive = US Customary Units