

Delta DSC Programmable Controller

BACnet Protocol Implementation Conformance Statement

Date:	Jan 18, 2011		
Vendor Name	Delta Electronics In		

Vendor Name: Delta Electronics, Inc.
Manufacturer: Airtek International, Inc.

Product Name: Delta DAC Programmable Controller

Product Model Number: DSC8846B, DSC8864B, DSCU842B, DSCB, DSC4211B, DSCV350B,

DSL1150B, DSF1150B, DSC24000B, DSC0080B

Firmware Revision: V1.08 BACnet Protocol Revision: 4

Product Description:

DSC series controllers are standalone BACnet B-ASC class programmable controllers. They are designed for monitor and control building electromechanical device, large AHU, clean room, fume hood, VAV, large-scale end device control. They conform international BACnet MS/TP communication protocol and fully compatible with other BACnet system. They can work in a 76,800 bps BACnet MS/TP network and have a MSnet port for a user interface device. The MSnet port can connect to a LCD control panel for control, monitor, and setting the system. DSC has a 32 bit microprocessor and has some I/O points. Its digital outputs are dry contact relays and analog output can be 4~20mA or 0~10VDC. Only the DSCB in the DSC series controllers has an EIM port and this EIM port can connect to 4 EIM modules. Total number of I/O points can be selected by using different combination of EIMs.

BACnet Standa	ardized Device P	rofile (Annex L):	:	
☐ BACnet Op	oerator Worksta	tion (B-OWS)		
☐ BACnet Ad	lvanced Operato	or Workstation (I	B-AWS)	
	oerator Display (,	
_	lding Controller			
	_	ion Controller (B	S-AAC)	
BACnet Ap	plication Specifi	ic Controller (B-A	ASC)	
	art Sensor (B-S			
	nart Actuator (B	· ·		
List all BACnet	t Interoperabilit	y Building Block	s Supported (Anı	nex K):
		DM-DDB-B DM-DOB-B		
Segmentation (Capability:			
☐ Segmented i	requests supporte	d		
☐ Segmented	responses suppor	rted		



Only 'A'/'V'/'P'/'T'/'5'/'3'

Standard Object Types Supported:

Analog Value Dynamically Creatable :No Dynamically Deletable :No

Optional Properties Supported: Description

Device-type Min_Pres_Value Max_Pres_Value

Writable Properties: Description Limit: 128 characters

Present Value writable when out-of-service

Units

Device-type
Out_Of_Service
Min_Pres_Value
Max Pres Value

Analog Output Dynamically Creatable :No Dynamically Deletable :No

Optional Properties Supported: Description

Device-type

Writable Properties: Description Limit: 128 characters

Present_Value Range: REAL 0.0~100.0 Relinquish_Default Range: REAL 0.0~100.0

Units

Out_Of_Service

Device-type Only 'A'/'V'

Analog Value Dynamically Creatable :No Dynamically Deletable :No

Optional Properties Supported: Description

Writable Properties: Description Limit: 128 characters

Present Value

Units

Binary Input Dynamically Creatable :No Dynamically Deletable :No

Optional Properties Supported: Description

Writable Properties: Description Limit: 128 characters

Present_Value

Out_Of_Service

Polarity

Binary Output Dynamically Creatable :No Dynamically Deletable :No

Optional Properties Supported: Description

Writable Properties: Description Limit: 128 characters

Present_Value Relinquish_Default Out Of Service

Polarity

writable when out-of-service



Binary Value Dynamically Creatable :No Dynamically Deletable :No

Optional Properties Supported: Description

Writable Properties: Description Limit: 128 characters

Present_Value Relinquish_Default

Device Dynamically Creatable :No Dynamically Deletable :No

Optional Properties Supported: Description

Location Local_Time Local_Date UTC_Offset

Daylight_Savings_Status

Max_Master
Max_Info_Frames
Last_Restore_Time

Writable Properties: Description Limit: 128 characters
Location Limit: 128 characters

Location
Local_Time
Local_Date
LITC_Offset

UTC_Offset Range :-780~780

Daylight_Savings_Status

Max_Master Range :1~127 Max_Info_Frames Range :1~200

File Dynamically Creatable :No Dynamically Deletable : No

Optional Properties Supported: Description

Writable Properties: Archive

File_Size(File 1024) Only Program 1024 program-stat !=

running

Program Dynamically Creatable : No Dynamically Deletable : No

Optional Properties Supported: Description

Reson_for_Halt Description_of_Halt

Writable Properties: Program_Change



Data Link Layer Options:

☐ BACnet IP, (Annex J) ☐ BACnet IP, (Annex J), Fore ☐ISO 8802-3, Ethernet (Claus ☐ ATA 878.1, 2.5 Mb. ARCN ☐ ATA 878.1, RS-485 ARCN	e 7) ET (Clause 8)				
 ■ MS/TP master (Clause 9), baud rate(s): 76.8k, 38.4k, 19.2k, 9600 bps ■ 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 ■ BACnet/ZigBee (ANNEX O) ■ Other: 					
Device Address Binding	:				
Is static device binding support and certain other devices.)	` ,	wo-way communication with MS/TP slaves			
Networking Options:					
□ Router, Clause 6 - List all ro □ Annex H, BACnet Tunnelin □ BACnet/IP Broadcast Mana		Ethernet, Ethernet-MS/TP, etc.			
Character Sets Support	ed:				
Indicating support for multiple	character sets does not imply that the	y can all be supported simultaneously.			
■ ISO 10646 (UTF-8) ■ ISO 10646 (UCS-2)	☐ IBMÔ/MicrosoftÔ DBCS ☐ISO 10646 (UCS-4)	□ISO 8859-1 □JIS C 6226			
□ 150 100 1 0 (005-2)	-130 10040 (0C3-4)	1 315 C 0220			

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

The MSnet port is programmable to be a master or a slave MODBUS RTU port to work with other MODBUS facility.