



Neptronic Temperature Controller Series

Rev.: 100519

PROTOCOL IMPLEMENTATION CONFORMANCE STATEMENT (PICS)

Vendor Name: Neptronic

Product Name: Neptronic Temperature Controller series

Product Model Number: *TFxB24 series*

TFCB24F3XYZ1, TFHB24F3XYZ1, TFHB24F3XYZ2, TFCB24F3XY2, TFCB24P3-OE1, TFHB24P3-OE2,

TFHB24P3-OE1

TFxB25 series

TFCB25-MT1

TRxB24 series

TROB24T4XYZ1

TRxB25 series TROB25

EFxB series

EFCB10, EFCB11, EFCB12,

EFCB12-GR1

EFHB10, EFHB11, EFHB12

EVxB series EVCB74

Product Version: TRxB24 series 1.05, TFxB24 series 1.10

TFxB25 series 1.02, TRxB25 series 1.01

EFxB series 1.01, EVxB series 1.01

BACnet Protocol Revision: 4



Product Description

The TFC (thermostat fan coil) & TFH (thermostat fan coil & humidity) 2x4 series electronic thermostat have been designed for general HVAC applications but more specifically for fan coil control.

The TRO (thermostat VAV) 2x4 series electronic thermostat have been designed for general HVAC applications but more specifically for VAV control.

The EFCB solution is as BACnet Application Specific Controller (B-ASC) designed for fan coil applications consisting of a controller module (EFCB) and a remote LCD thermostat (TFL).

The EVCB solution is as BACnet Application Specific Controller (B-ASC) designed for VAV applications consisting of a controller module (EVCB) with actuator and a remote LCD thermostat (TRL).

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-Read Property-B (DS-RP-B) ☑ Data Sharing-Write Property-B (DS-WP-B) ☑ Device Management-Dynamic Device Binding-B (DM-DDB-B) ☑ Device Management-Dynamic Object Binding-B (DM-DOB-B) ☑ Device Management-Device Communication Control-B (DM-DCC-B) 					
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	Ø			Reliability Description Min_Present_Value Max_Present_Value Resolution	Out_of_Service
Analog Value	☑			Reliability Description	Present_Value ¹ Out_of_Service ²
Binary Input				Reliability Active_Text Inactive_Text Description	Out_of_Service
Binary Value	☑			Reliability Active_Text Inactive_Text Description	Present_Value ³ Out_of_Service ⁴
Device	☑			Max_Master Max_Info_Frame Description #1000 (MAC ADD) ⁵ #1001 (BAUD RATE) #1002 (TIME OUT)	Object_Identifier Object_Name Max_Master Description #1000 #1001 #1002
Multi-state ⁶ Value				Description Reliability States_Text	Present_Value ⁷ Out_of_Service ⁸

¹ Present_Value property is writable for every AV object except: AV.1, AV.2, AV.3, AV.4, AV.28, AV.36, AV.41, AV.42, AV.46, AV.49, AV.68, AV.69

² Out_of_Service property is writable for objects that Present_Value is not writable. See list above.

Object will automatically return to normal after a programmable period of time. See Proprietary property #1002 of Device object.

³ Present_Value property is writable for every BV object except: BV.7

⁴ Out_of_Service property is writable for objects that Present_Value is not writable. See list above.

Object will automatically return to normal after a programmable period of time. See Proprietary property #1002 of Device object.

⁵ TFxB25, TRxB25, EFxB and EVxB series use dipswitches for MSTP MAC ADD, this property is not available on these series.

⁶ MSV object states number and text can vary depending of system set-up. Use carefully.

⁷ Present_Value property is writable for every MSV object except: MSV.9, MSV.14

⁸ Out_of_Service property is writable for objects that Present_Value is not writable. See list above.

Object will automatically return to normal after a programmable period of time. See Proprietary property #1002 of Device object.



Data Link Layer Options:		
 □ BACnet IP, (Annex J) □ BACnet IP, (Annex J), Foreign D □ ISO 8802-3, Ethernet (Clause 7) □ ANSI/ATA 878.1, 2.5 Mb. ARCN □ ANSI/ATA 878.1, RS-485 ARCN ☑ MS/TP master (Clause 9), baud ☑ ¹MS/TP slave (Clause 9), baud r □ Point-To-Point, EIA 232 (Clause □ Point-To-Point, modem, (Clause □ LonTalk, (Clause 11), medium: □ Other: 	(10Base2, 10Base5, 10 ET (Clause 8) ET (Clause 8), baud rate rate(s): 9600, 19200, 384 ate(s): 9600, 19200, 384 10), baud rate(s):	e(s): 400, 76800
Device Address Binding:		
Is static device binding supported? (This is necessary for two-way comdevices.)		slaves and certain other
Networking Options:		
Router Annex H, BACnet Tunneling BACnet/IP Broadcast Management Does the BBMD support registratio	` ,	N/A
Character Sets Supported:		
☑ ANSI X3.4 □ ISO 10646 (ICS-4)	☐ IBM/Microsoft DBCS ☐ ISO 10646 (UCS2)	□ JIS C 6226 □ ISO 8859-1
If this product is a communi non-BACnet equipment/netwood applicable.		

¹ TFxB25, TRxB25, EFxB and EVxB series use dipswitches for MS/TP address and doesn't support MS/TP slave.