SUREFLOW™ Model 8650-BAC

PICS Statement

Date: March 19, 2007
Vendor Name: TSI Inc.
Product Name: SUREFLOW Room Pressure Controller
Product Model Number: 8650-BAC
Applications Software Version: 1.0
Firmware Revision: 1.0
BACnet Protocol Revision: 2

Product Description:
TSI's SUREFLOW™ Fume Hood Face Velocity Controller provides closed-loop VAV control for proper lab hood containment. SUREFLOW assures safety by responding quickly during sash movement, or to disturbances within the sash plane, to maintain constant face velocity and contain hazardous chemicals. This model controller is capable of acting as a stand-alone device or as part of a building automation system via BACnet MS/TP protocol.

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

Segmentation Capability:
None

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

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

Standard Object Types Supported:

	Dynamically Creatable	Dynamically Deletable	Optional Properties Supported	Writable Properties (Data Type)
Analog Input	No	No		
Analog Value	No	No		Present_Value (Real)
Binary Input	No	No	Active_Text, Inactive_Text	
Binary Value	No	No	Active_Text, Inactive_Text	Present_Value (Enumerated)
Multi-State Input	No	No	State_Text	
Multi-State Value	No	No	State_Text	Present_Value (Unsigned Int)
Device Object	No	No		Object Name (Char String) Max Master (Unsigned Int)

Data Link Layer Options:
☑ MS/TP master (Clause 9), baud rate(s): 76.8k 38.4k, 19.2k, 9600 bps

Device Address Binding:
Not Supported

Networking Options:
None

Character Sets Supported:
☑ ANSI X3.4

Object Type	Device Instance	*Units	Description	
Analog Input	1	ft/min, m/s	Face Velocity	
Analog Input	2	%	Damper Position	
Analog Value	1		MAC Address	1 to 127
Analog Value	2	ft/min, m/s	Face Velocity Setpoint	
Analog Value	3	ft/min, m/s	Setback Setpoint	
Analog Value	4	ft/min, m/s	Low Alarm Setpoint	
Analog Value	5	ft/min, m/s	High Alarm Setpoint	
Analog Value	6	%	Min. Damper Position	0 to 100
Analog Value	7	%	Max. Damper Position	0 to 100
Binary Value	1		Units Value	0 ft/min 1 m/s
Multi-State Input	1		Status Index	1 Normal 2 Setback 3,4 Low Alarm 5,6 High Alarm 7,8 No Flow Alarm** 9,10 Sensor Error 11,12 Data Error 13,14 Emergency
Multi-State Value	1		Baud Rate	1 Auto 2 9600 3 19200 4 38400 5 76800
Multi-State Value	2		Emergency Mode	1 Take out of Emergency Mode 2 Put into Emergency Mode 3 Normal
Multi-State Value	3		Setback Mode	1 Take out of Setback Mode 2 Put into Setback Mode 3 Normal
Device	865001***		TSI8650	

* The units are based on the value of the Units Value object. When the Units Value is set to 0 the units are in English form. When the Units Value is set to 1 the units are metric. English is the default value.

** The No Flow Alarm is not available on standard Model 8650s.

*** The device instance is 865000, summed with the MAC address of the device.

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