

SUREFLOW™ Model 8681-BAC PICS Statement

Date: March 19, 2007
Vendor Name: TSI Inc.
Product Name: SUREFLOW Room Pressure Controller
Product Model Number: 8681 -BAC
Applications Software Version: 1.0
Firmware Revision: 1.0
BACnet Protocol Revision: 2

Product Description:

TSI's SUREFLOW™ Room Pressure Controllers accurately measure and control the actual room pressure differential, helping to ensure the proper operation of your HVAC system to maintain patient safety. This model monitor/controller is capable of acting as a stand-alone device or as part of a building automation system via BACnet MS/TP protocol.

<p>BACnet Standardized Device Profile (Annex L): <input checked="" type="checkbox"/> BACnet Application Specific Controller (B-ASC)</p> <p>Segmentation Capability: None</p>	<p>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</p>
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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, in. H ₂ O, Pa	Room Pressure	
Analog Input	2	cfm, l/s	Supply Flow Rate	
Analog Input	3	cfm, l/s	Supply Flow Setpoint	
Analog Input	4	cfm, l/s	General Exhaust Flow Rate	
Analog Input	5	cfm, l/s	General Exhaust Flow Setpoint	
Analog Input	6	cfm, l/s	Hood Flow Rate	
Analog Input	7	cfm, l/s	Current Flow Offset	
Analog Input	8	°F, °C	Temperature	
Analog Input	9	% Open	Supply Damper Position	
Analog Input	10	% Open	Exhaust Damper Position	
Analog Input	11	% Open	Reheat Valve Position	
Analog Value	1		MAC Address	1 to 127
Analog Value	2	ft/min, m/s, in. H ₂ O, Pa	Room Pressure Setpoint	-0.19500 to 0.19500 in. H ₂ O
Analog Value	3	ft/min, m/s, in. H ₂ O, Pa	Low Pressure Alarm	-0.19500 to 0.19500 in. H ₂ O
Analog Value	4	ft/min, m/s, in. H ₂ O, Pa	High Pressure Alarm	-0.19500 to 0.19500 in. H ₂ O
Analog Value	5	cfm, l/s	Vent Min. Setpoint	0 to 30,000 cfm
Analog Value	6	cfm, l/s	Cooling Flow Setpoint	0 to 30,000 cfm
Analog Value	7	cfm, l/s	Unocc Flow Setpoint	0 to 30,000 cfm
Analog Value	8	cfm, l/s	Max. Supply Setpoint	0 to 30,000 cfm
Analog Value	9	cfm, l/s	Min. Exhaust Setpoint	0 to 30,000 cfm
Analog Value	10	cfm, l/s	Min. Offset	0 to 30,000 cfm
Analog Value	11	cfm, l/s	Max. Offset	0 to 30,000 cfm
Analog Value	12	cfm, l/s	Min. Supply Alarm	0 to 30,000 cfm
Analog Value	13	cfm, l/s	Max. Exhaust Alarm	0 to 30,000 cfm
Analog Value	14	°F, °C	Temperature Setpoint	50 to 85 °F
Analog Value	15	°F, °C	Unocc Temp Setpoint	50 to 85 °F
Binary Value	1		Occ/Unocc Mode	0 Occupied 1 Unoccupied
Multi-State Input	1		Status Index	1 Normal 2 Low Press Alarm 3 High Press Alarm 4 Max Exhaust Alarm 5 Min Supply Alarm 6 Data Error 7 Emergency
Multi-State Value	2		Emergency Mode	1 Exit Emergency Mode 2 Enter Emergency Mode 3 Normal
Multi-State Value	3		Units Value	1 ft/min 2 m/s 3 in. H ₂ O 4 Pa

Device 868001** TSI8681

* The units are based on the value of the Units Value object. When the Units Value is set to 1 or 3 the units are in English form. When the Units Value is set to 2 or 4 the units are metric. English is the default value.

** The device instance is 868000, summed with the MAC address of the device.



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