

## PRESSURA™ Model 8631-HC-BAC

### PICS Statement

**Date:** March 19, 2007  
**Vendor Name:** TSI Inc.  
**Product Name:** Pressura Room Pressure Controller  
**Product Model Number:** 8631-HC-BAC  
**Applications Software Version:** 1.0  
**Firmware Revision:** 1.0  
**BACnet Protocol Revision:** 2

**Product Description:**

TSI's PRESSURA™ 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.

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

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

**Segmentation Capability:**  
 None

**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, in. H <sub>2</sub> O, Pa	Room Pressure	
Analog Input	2	ft/min, m/s, in. H <sub>2</sub> O, Pa	Sec Sens Pressure	
Analog Input	3	ft/min, m/s, in. H <sub>2</sub> O, Pa	Current Pressure Setpoint	
Analog Input	4	cfm, l/s	Flow Rate	
Analog Input	5		Air Changes Per Hour	
Analog Input	6	%	Damper Position	
Analog Value	1		MAC Address	1 to 127
Analog Value	2	ft/min, m/s, in. H <sub>2</sub> O, Pa	Neg Pressure Setpoint	0 to -0.19500 in. H <sub>2</sub> O
Analog Value	3	ft/min, m/s, in. H <sub>2</sub> O, Pa	Pos Pressure Setpoint	0 to 0.19500 in. H <sub>2</sub> O
Analog Value	4	ft/min, m/s, in. H <sub>2</sub> O, Pa	Neg Low Alarm	0 to -0.19500 in. H <sub>2</sub> O
Analog Value	5	ft/min, m/s, in. H <sub>2</sub> O, Pa	Neg High Alarm	0 to -0.19500 in. H <sub>2</sub> O
Analog Value	6	ft/min, m/s, in. H <sub>2</sub> O, Pa	Pos Low Alarm	0 to 0.19500 in. H <sub>2</sub> O
Analog Value	7	ft/min, m/s, in. H <sub>2</sub> O, Pa	Pos High Alarm	0 to 0.19500 in. H <sub>2</sub> O
Analog Value	8	ft/min, m/s, in. H <sub>2</sub> O, Pa	Sec Low Alarm	-0.19500 to 0.19500 in. H <sub>2</sub> O
Analog Value	9	ft/min, m/s, in. H <sub>2</sub> O, Pa	Sec High Alarm	-0.19500 to 0.19500 in. H <sub>2</sub> O
Analog Value	10	cfm, l/s	Min Exhaust Setpoint	0 to 30,000 cfm
Analog Value	11	cfm, l/s	Min Exhaust Alarm	0 to 30,000 cfm
Multi-State Input	1		Status Index	1 Normal 2 Low Alarm 3 High Alarm 4 Min Exhaust Alarm 5 Sec Sens Low Alarm 6 Sec Sens High Alarm 7 Data Error 8 Emergency
Multi-State Value	2		Control Mode	1 Negative 2 Positive 3 No Isolation
Multi-State Value	3		Units Value	1 ft/min 2 m/s 3 in. H <sub>2</sub> O 4 Pa
Multi-State Value	4		Emergency Mode	1 Exit Emergency Mode 2 Enter Emergency Mode 3 Normal
Device	863001**		TSI8631	

\* 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 863000, summed with the MAC address of the device.



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