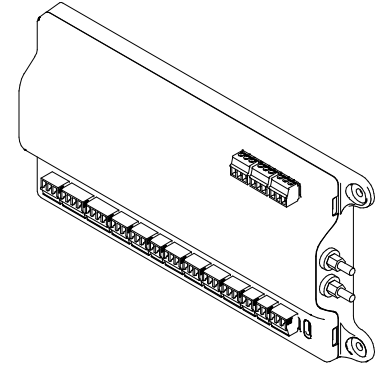
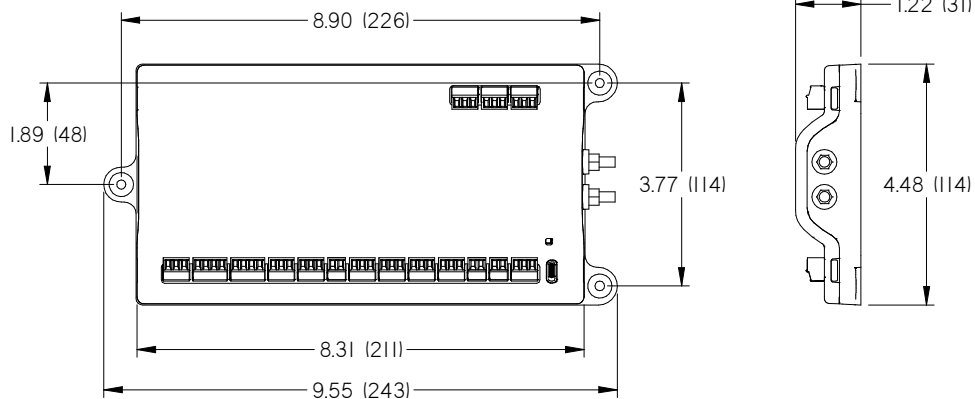


PACE SPECIFICATIONS:		
ENVIRONMENTAL (OPERATING)	32°F to 130°F (0°C to 55°C), 5% to 95% R.H.(NON-CONDENSING)	
ENVIRONMENTAL (STORAGE)	-22°F to 130°F (-30°C to 70°C), 0% to 95% R.H.(NON-CONDENSING)	
INPUT POWER	24 VAC, 50/60 Hz SINGLE PHASE, 75 VA MAX (18 VA EXCLUDING EXTERNAL LOADS), CLASS 2 or LPS PELV	
INPUTS	2 BINARY INPUTS (CONTACT CLOSURE), 4 ANALOG INPUTS (0 to 10 VDC), 2 10K TYPE 2 THERMISTORS INPUTS, ROOM INFORMATION NETWORK, SENSOR INFORMATION NETWORK, 2 POT INPUTS, 2 RS485 NETWORK (FHN, BACNET), 1 TRANSDUCER (VV: 0-4 in.w.c., VFX: 0-2 in.w.c.)	
OUTPUTS	2 ACTIVE BINARY OUTPUTS (24 VAC, MAX: 500 mA), 4 ANALOG OUTPUTS (0 to 10 VDC, MAX:10 mA)	
INDICATORS	STATUS LED	
HOUSING	UL 94 V-0, PC-ABS PLASTIC	
RATED IMPULSE VOLTAGE	330 V (AFTER TRANSFORMER)	
COMMUNICATION PROTOCOL	BACNET MS/TP	
BACNET	DEVICE TYPE	B-AAC
	COMMUNICATION TYPE	MS/TP (RS-485)
	COMMUNICATION SPEED	9600, 19200, 38400, 76800
	CERTIFICATION	BTL
	CONTROL PRIORITY ORDER	1. ANTEC TOOLBOX 2. BACNET 3. NORMAL OPERATION



DIMENSIONS:



AIRFLOW DEVICE TYPE:

- VENTURI VALVE (VV)
PRESSURE SENSOR 0 to 4.0 in.w.c. (0 to 1000 Pa)
- VENTURI FX (VFX) OR TERMINAL (TU)
PRESSURE SENSOR 0 to 2.0 in.w.c. (0 to 500 Pa)

MOUNT:

- AIRFLOW DEVICE MOUNTED (DEFAULT)
- PANEL MOUNTED (PM)

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Product Submittal

270117
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2019/06/18

BACNET POINTS LIST v1.1.0 OR NEWER					
Object	Name	Units	Range	Description	Write Setting
ANALOG INPUTS					
<i>Note: Analog input AI1 will display as AI11 for Pace™ Controller 1, AI21 for Pace™ Controller 2, etc.</i>					
A#1	[Pace name] AI1 – [AI1 Device name]	Dynamic	Dynamic	Analog Input w ith multiple uses See <i>Input</i> section of the PACE manual for options	R
A#2	[Pace name] AI2 – [AI2 Device name]	Dynamic	Dynamic	Analog Input w ith multiple uses See <i>Input</i> section of the PACE manual for options	R
A#3	[Pace name] AI3 – [AI3 Device name]	Dynamic	Dynamic	Analog Input w ith multiple uses See <i>Input</i> section of the PACE manual for options	R
A#4	[Pace name] AI4 – [AI4 Device name]	Dynamic	Dynamic	Analog Input w ith multiple uses See <i>Input</i> section of the PACE manual for options	R
A#5	[Pace name] T1 – [T1 Device name]	°F or °C	0 to 150 °F	Thermistor reading	R
A#6	[Pace name] T2 – [T2 Device name]	°F or °C	0 to 150 °F	Thermistor reading	R
BINARY INPUTS					
<i>Note: Binary input BI1 will display as BI11 for Pace™ Controller 1, BI21 for Pace™ Controller 2, etc.</i>					
BI#1	[Pace name] BI1 – [BI1 Device name]	Open/Closed	Open/Closed	Binary Input w ith multiple uses See <i>Input</i> section of the PACE manual for options	R
BI#2	[Pace name] BI2 – [BI2 Device name]	Open/Closed	Open/Closed	Binary Input w ith multiple uses See <i>Input</i> section of the PACE manual for options	R
ANALOG OUTPUTS					
<i>Note: Analog output AO1 will display as AO11 for Pace™ Controller 1, AO21 for Pace™ Controller 2, etc.</i>					
AO#1	[Pace name] AO1 – [AO1 Device name]	VDC	0 to 10	Analog Output w ith multiple uses See <i>Output</i> section of the PACE manual for options	R/W
AO#2	[Pace name] AO2 – [AO2 Device name]	VDC	0 to 10	Analog Output w ith multiple uses See <i>Output</i> section of the PACE manual for options	R/W
AO#3	[Pace name] AO3 – [AO3 Device name]	VDC	0 to 10	Analog Output w ith multiple uses See <i>Output</i> section of the PACE manual for options	R/W
AO#4	[Pace name] AO4 – [AO4 Device name]	VDC	0 to 10	Analog Output w ith multiple uses See <i>Output</i> section of the PACE manual for options	R/W
BINARY OUTPUTS					
<i>Note: Analog output BO1 will display as BO11 for Pace™ Controller 1, BO21 for Pace™ Controller 2, etc.</i>					
BO#1	[Pace name] BO1 – [BO1 Device name]	Active/Inactive	Active/Inactive	Binary Output w ith multiple uses See <i>Output</i> section of the PACE manual for options	R/W
BO#2	[Pace name] BO2 – [BO2 Device name]	Active/Inactive	Active/Inactive	Binary Output w ith multiple uses See <i>Output</i> section of the PACE manual for options	R/W
ANALOG VALUE					
AV1	Room Pressure Setpoint	in.w .c.; Pa	-0.100 to 0.100 in.w .c.	Current room pressure setpoint <i>Hidden when pressure control not used</i>	R/W
AV2	Room Pressure	in.w .c.; Pa	-0.100 to 0.100 in.w .c.	Current room pressure	R
AV3	Room Pressure Low Alarm	in.w .c.; Pa	-0.100 to 0.100 in.w .c.	Low room pressure alarm setpoint (+/-)	R/W
AV4	Room Pressure High Alarm	in.w .c.; Pa	-0.100 to 0.100 in.w .c.	High room pressure alarm setpoint (+/-)	R/W
AV5	Airflow Offset Setpoint	CFM; L/s	-10000 to 10000 CFM	Current airflow off set setpoint <i>Hidden when offset control not used</i>	R/W

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BACNET POINTS LIST v1.1.0 OR NEWER (CONTINUED)

Object	Name	Units	Range	Description	Write Setting
ANALOG VALUE					
AV6	Airflow Offset Actual	CFM; L/s	-10000 to 10000 CFM	Current airflow offset (+/-)	R/W
AV7	Total Exhaust Airflow Target	CFM; L/s	0 to 10000 CFM	Total room exhaust airflow target	R
AV8	Total Exhaust Airflow Actual	CFM; L/s	0 to 10000 CFM	Total room exhaust airflow	R
AV9	Total Supply Airflow Target	CFM; L/s	0 to 10000 CFM	Total room supply airflow target	R
AV10	Total Supply Airflow Actual	CFM; L/s	0 to 10000 CFM	Total room supply airflow	R
AV11	Total Fume Hood Exhaust	CFM; L/s	0 to 10000 CFM	Total fume hood exhaust airflow <i>Hidden if no fume hoods connected</i>	R
AV12	Room Volume	ft³	0 to 32767	Room volume	R/W
AV13	Current Air Change Rate	#	0.0 to 100.0	Current air change rate	R
AV14	Temperature Setpoint - Zone 1	°F;°C	0 to 150 °F	Temperature setpoint in zone 1 <i>Hidden if there are no temperature zones</i>	R/W
AV15	Temperature Reading - Zone 1	°F;°C	0 to 150 °F	Current temperature in zone 1	R
AV16	Temperature Setpoint - Zone 2	°F;°C	0 to 150 °F	Temperature setpoint in zone 2 <i>Hidden if multiple zones have not been configured</i>	R/W
AV17	Temperature Reading - Zone 2	°F;°C	0 to 150 °F	Current temperature in zone 2 <i>Hidden if multiple zones have not been configured</i>	R
AV18	Temperature Setpoint - Zone 3	°F;°C	0 to 150 °F	Temperature setpoint in Zone 3 <i>Hidden if multiple zones have not been configured</i>	R/W
AV19	Temperature Reading - Zone 3	°F;°C	0 to 150 °F	Current Temperature in zone 3 <i>Hidden if multiple zones have not been configured</i>	R
AV20	Room Temperature Setpoint - Low Limit	°F;°C	0 to 150 °F	Low est user-adjustable temperature setpoint on the thermostat	R/W
AV21	Room Temperature Setpoint - High Limit	°F;°C	0 to 150 °F	Highest user-adjustable temperature setpoint on the thermostat	R/W
AV22	DAT Low Limit	°F;°C	0 to 200 °F	Discharge air temperature low temperature limit <i>Hidden if DAT limits are not enabled</i>	R/W
AV23	DAT High Limit	°F;°C	0 to 200 °F	Discharge air temperature high temperature limit <i>Hidden if DAT limits are not enabled</i>	R/W
AV24	Constant Airflow Setpoint	CFM; L/s	0 to 10000 CFM	Constant airflow setpoint <i>Hidden if constant airflow control not used</i>	R/W
AV25	Constant Airflow Actual	CFM; L/s	0 to 10000 CFM	Constant airflow <i>Hidden if constant airflow control not used</i>	R/W
AV26	Temperature Load - Zone 1	%	-100% to 100%	Temperature load in Zone 1 <i>Hidden if there are no temperature zones</i>	R
AV27	Temperature Load - Zone 2	%	-100% to 100%	Temperature load in Zone 2 <i>Hidden if multiple zones have not been configured</i>	R
AV28	Temperature Load - Zone 3	%	-100% to 100%	Temperature load in Zone 3 <i>Hidden if multiple zones have not been configured</i>	R

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BACNET POINTS LIST v1.1.0 OR NEWER (CONTINUED)

Object	Name	Units	Range	Description	Write Setting
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Note: Analog value AV#01 will display as AV101 for Pace™ Controller 1, AV201 for Pace™ Controller 2, etc...

AV#01	[Pace name] flow - [POT1 Device name]	CFM; L/s	0 to 10000 CFM	POT1 airflow reading <i>Hidden when POT1 is not used</i>	R
AV#02	[Pace name] flow - [POT2 Device name]	CFM; L/s	0 to 10000 CFM	POT2 airflow reading <i>Hidden when POT2 is not used</i>	R
AV#03	[Pace name] - Valve Pressure	in.w.c.; Pa	0 to 5 in.w.c.	Valve Pressure <i>Hidden when device type is not VV</i>	R
AV#04	[Pace name] flow - [Transducer Device name]	CFM; L/s	0 to 10000 CFM	Transducer airflow reading <i>Hidden when airflow source is not transducer</i>	R
AV#05	[Pace name] AI1 - DAT Setpoint	°F;°C	0 to 150 °F	Discharge Air Temperature Setpoint for AI1 <i>Hidden when DAT control is not enabled</i>	R/W
AV#06	[Pace name] AI2 - DAT Setpoint	°F;°C	0 to 150 °F	Discharge Air Temperature Setpoint for AI2 <i>Hidden when DAT control is not enabled</i>	R/W
AV#07	[Pace name] AI3 - DAT Setpoint	°F;°C	0 to 150 °F	Discharge Air Temperature Setpoint for AI3 <i>Hidden when DAT control is not enabled</i>	R/W
AV#08	[Pace name] AI4 - DAT Setpoint	°F;°C	0 to 150 °F	Discharge Air Temperature Setpoint for AI4 <i>Hidden when DAT control is not enabled</i>	R/W
AV#09	[Pace name] T1 - DAT Setpoint	°F;°C	0 to 150 °F	Discharge Air Temperature Setpoint for T1 <i>Hidden when DAT control is not enabled</i>	R/W
AV#10	[Pace name] T2 - DAT Setpoint	°F;°C	0 to 150 °F	Discharge Air Temperature Setpoint for T2 <i>Hidden when DAT control is not enabled</i>	R/W

Note: Analog value AV#11 will display as AV111 for Fume Hood Controller (FHC) 1, AV211 for Fume Hood Controller (FHC) 2, etc.

AV#11	Fume Hood # Airflow	CFM; L/s	0 to 10000 CFM	Displays the current airflow being exhausted from the fume hood	R
AV#12	Fume Hood # Face Velocity	FPM; m/s	0 to 250 FPM	Displays the current face velocity across the fume hood	R
AV#13	Fume Hood # Sash Position	%	0 to 100	Displays the current position of the sash on the fume hood	R
AV#14	Fume Hood # Valve Pressure	in.w.c.; Pa	0 to 5 in.w.c.	Displays the current pressure across the valve on the fume hood	R

MULTISTATE VALUE

MV1	Airflow Control Sequence	Text	3 states	Displays the current airflow control sequence 1 - Constant Flow Control 2 - Pressure Control 3 - Offset Control	R
MV2	Room Pressure Mode	Text	2 states	Displays the current room pressure mode 1 - Positive 2 - Negative	R

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BACNET POINTS LIST v1.1.0 OR NEWER (CONTINUED)

Object	Name	Units	Range	Description	Write Setting
MULTISTATE VALUE					
MV3	Room Alarm Status	Text	13 states	Displays the current room alarm status 1 - Controller Not Responding 2 - Missing Room Pressure Sensor 3 - Diversity 4 - Binary Input 5 - Mode Alarm 6 - Door Open 7 - Room Low Pressure 8 - Room High Pressure 9 - Low Airflow 10 - Low Valve Pressure 11 - High Airflow 12 - High Valve Pressure 13 - No Alarm	R
MV4	Room Mode	Text	6 states	Displays the current room mode 1 - [Default Room Mode Name] 2 - [Custom Room Mode 1 Name] 3 - [Custom Room Mode 2 Name] 4 - [Custom Room Mode 3 Name] 5 - [Custom Room Mode 4 Name] 6 - [Custom Room Mode 5 Name]	R/W
MV99	Firmware Update Status	Text	4 states	Displays the current firmware update status 1 - Idle 2 - Start Firmware Update 3 - Updating Firmware 4 - Firmware Update Failed	R/W
<i>Note: Multistate value MV#1 will display as MV11 for Fume Hood Controller (FHC) 1, MV21 for Fume Hood Controller (FHC) 2, etc...</i>					
MV#1	Fume Hood # Status	Text	6 states	Displays the status of the fume hoods 1 - Missing FHC 2 - Normal 3 - Caution 4 - Alarm 5 - Setback 6 - Off	R

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BACNET POINTS LIST v1.1.0 OR NEWER (CONTINUED)					
Object	Name	Units	Range	Description	Write Setting
MULTISTATE VALUE					
MV#2	Fume Hood # Error Type	Text	21 states	Displays the cause of any alarms or cautions on the fume hoods 1 - No Error 2 - Emergency 3 - Network 4 - Contact Input 5 - No Primary Sensor 6 - No Sec. Sensor 7 - No Sash1 8 - No Sash2 9 - No Sash 3 10 - Low Velocity 11 - High Velocity 12 - Low Pressure 13 - High Pressure 14 - Venturi Out of Range 15 - Sash Height 16 - Low Airflow 17 - High Airflow 18 - Sash Broken 19 - B1 20 - B2 21 - Setback Sash Height	R
FILE					
FL1	Firmware	-	-	The file object used for firmware upgrades - feature only available if supported by BAS	W
CALENDAR					
CAL1	Calendar Object	-	-	The calendar object used for scheduling	R/W
NOTIFICATION CLASS					
EVC1	Notification Class object	-	-	The notification class object for alarming	R/W
SCHEDULE					
SCH1	Room Mode Schedule	-	-	The scheduling object for scheduling room mode changes	R/W

NOTE:
The BACnet point names can be overridden using Antec Toolbox and may not match the names listed in this table. The instance numbers can be used in this case to identify the points.

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