

Submittal

Titus Alpha BACnet Controller

(ACS) Application Specific Controller with Integral Actuator (EMCS) Energy Management

Stand-alone or networked operation



Dimensions

Α	В	С	D	E	F	G
6.53 in	4.89 in.	4.25 in.	0.77 in.	6.00 in	2.14 in.	1.92 in.
166 mm	124 mm	108mm	19 mm	152 mm	54 mm	49 mm

Note: See page 2 for specifications

This submittal is meant to demonstrate general dimensions of this product. The drawings are not meant to detail every aspect of the product. Drawings are not to scale. Titus reserves the right to make changes without written notice.

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Specifications

nalog inputs	All inputs are configured as analog objects	Air flow sensor features	Configured as BACnet analog input object
Active inputs	1	An now school reatures	CMOS differential pressure 0-2 inches of water
Passive inputs	3		(0-500 Pa) measurement range. Internally
Air flow sensor	1		linearized and temperature compensated.
Key features	- Standard units of measure		Span accuracy 4.5% of reading.
Key leatures	Overvoltage input protection		parped connections for 1/4 FR tubing.
Connector	Snade connectors 0.25 inch		length and connections
Conversion	12-bit analog-to-digital conversion		contra da contectorio.
Loout conoc	0.12 volte DC	Actuator enseitigations	
input range	0-12 VORS LA.	Actuator specifications	
		Torque	40 in-lb. (4.5 N+m)
		Angular rotation	0 to 95°
		-	Adjustable end stops at 45° and 60° rotation
Outputs, analog	2	Motor timing, BAC-8005	90 sec./90° at 60 Hz
Key features	Output short protection		108 sec./90° at 50 Hz
	Configured as BACnet analog objects.	Motor timing, BAC-8205	60sec./90° at 60 Hz
	Standard units of measure		72 sec./90° at 50 Hz
Connector	Spade connectors, 0.25 inch	Shaft size	Directly mounts on 3/8 to 5/8 inch (9.5 to 16 mm)
Conversion	Conversion 12-bit analog-to-digital conversion		round or 3/8 to 7/16 inch (9.5 to 11 mm) square
Output voltage	0–10 volts DC		damper snatts.
Output current	30 mA per output, 30 mA total for all analog		
	outputs	Regulatory	UL 916 Energy Management Equipment
			PCC Class B, Part 15, Subpart B
Outputs, binary	4 triacs for external equipment		pachet lesting Laboratory listed as an application
	2 for the internal actuator		Specific controller (ASC). UL 864 smoke controls (BAC-8205 only)
Key features	Optically isolated triac output		on our amove controls (DAC-0205 Only)
Conversion	12-bit analog-to-digital conversion	I	
Connector	Spade connectors, 0.25 inch	Installation	04 1-4-CL 1500 0000 5311
Output range	Maximum switching 24 VAC at 3 amperes	Supply voltage	24 VOIIS AC, -15%, +20% 5 VA
	5 I	Weight	13.2 ounces (376 grams)
Communications		Case material	Flame retardant plastic
RACnet MS/TP	FIA-485 operating at rates up to 76.8 kilobaud		
WINCHEL MENTI	Removable screw terminal block.	Environmental limits	
	Wire size 12–24 AWG	Operating	32 to 120° F (0 to 49° C)
Sensor Jack	RI-45 jack compatible with model STE-8000 and	Shipping	-40 to 140° F (-40 to 60° C)
Consor pack	STE-6000 models with RJ-45 jacks	Humidity	5-95% relative humidity (non-condensing)
Supported objects	See PIC statement for supported BACnet objects	Models	
Control Basic	5 program areas in BAC-8005	BAC-8005	Cooling VAV controller with 90 second actuator
CONTRACT PROFE	6 program areas in BAC-8205		and reheat
PID loop objects	2	BAC-8205	Cooling VAV controller with 60 second actuator
Value objects	60 analog. 32 binary and 12 multistate		reheat, and UL 864 smoke control application
- and objects	and the second provide the manufacture		
Memory	Programs and program parameters are stored in		
	nonvolatile memory.		
	Auto restart on power failure		
Applications programs	KMC Controls supplies the BAC-8x07 with		
	programming sequences for dual-duct VAV		
	applications:		
	Cooling VAV with modulating time		
	 cooling vive with modulating, time proportional two-stage three-stage and tri-stage 		
	reheat		
	 Monitor CO2 to control indoor air quality 		
	 Control local lighting with motion sensing 		
	♦ Fan control		
	 Balancing 		
	 UL 864 smoke controll (BAC-8205 only) 		
	- e-		

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Room sensors





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Material Light Almond (or White) ABS, UL Flame Class 94HB

Sensor

Type Type II 10k-ohm thermistor

Accuracy $\pm 0.36^{\circ}$ F ($\pm 0.20^{\circ}$ C) Temp. Reading Thermistor resistance only from all models except the 0–5 VDC voltage output from the STE-6012/6016 transmitter

Power Requirements 6013/6015/6018/6020 (LED) 10 VDC (12 VDC max); 5 mA max. current draw at 12 VDC