

Fault Condition One Report

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Fault definition. 1

Fault condition one of ASHRAE Guideline 36 is related to flagging poor performance of a AHU variable supply fan attempting to control to a duct pressure setpoint. Fault condition equation as defined by ASHRAE:

FC#1	Equation	DSP < DSPSP – εDSP AND VF DSP ≥ 99% – εVF DSP	Applies to OS#1 through OS#5
	Description	Duct static pressure too low with fan at full speed	
	Possible Diagnosis	<ul style="list-style-type: none">• Problem with VFD• Mechanical problem with fan• Fan undersized• SAT set point too high (too much zone demand)	

Dataset Plot. 1

Dataset Statistics. 1

- This outputs correctly
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Summary Statistics filtered for when the AHU is running. 1

Suggestions based on data analysis. 1

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