DIRTY FILTER ALARM

The differential pressure loss across the filter is monitored.

- Products used: ADPS Pressure Switch and 616KD Differential Pressure Transmitter

FAN VALIDATION

Proving a fan is operating can be done in several ways:

1. Monitor the differential pressure between upstream and downstream of the fan.
   - Product used: ADPS Pressure Switch
2. Monitor the air flow or velocity exiting the fan.
   - Products used: DH, DHII, DH3, MS, AVU, VTT, 641 Transmitter or 616KD Differential Pressure Transmitter
3. Monitor the current usage of the fan.
   - Product used: SCS Current Switch

DUCT STATIC PRESSURE

A pressure transmitter is used with a static pressure tip or optional inherent static probe to monitor discharge or mixing air duct static pressures.

- Products used: MS Pressure Transmitter with A-302 Static Pressure Tip or MS with integral static pressure probe

DUCT HUMIDITY SENSOR

A humidity transmitter is inserted into the duct to monitor the zone discharge humidity.

- Product used: RHP Humidity Transmitter

DUCT HUMIDITY/TEMPERATURE SENSOR

A dual humidity and temperature transmitter is inserted into the duct to monitor the exhaust air humidity and temperature.

- Product used: RHP Humidity/Temperature Transmitter

DUCT TEMPERATURE SENSOR

A temperature sensor is inserted into the duct to monitor the supply air, mix air, and exhaust air temperature.

- Products used: TE-D Series Temperature Sensor or TE-A Averaging Temperature Sensor

FILTER

A pleated filter offers better protection against dust and other airborne particulate, protecting your HVAC equipment and helps clean the indoor environment.

- Product used: DF Pleated Filters

FROZEN COIL ALARM

A differential pressure loss across the cooling coil indicates ice build up on the coil.

- Products used: ADPS Pressure Switch or EDPS UL508 listed Pressure Switch
LEAK DETECTION/DRIP PAN MONITOR

Proving a pump is operating can be done in several ways:

1. Monitor the differential pressure between upstream and downstream
2. Monitor the water flow exiting the pump.
3. Monitor the current usage of the pump.
4. Ensure proper differential pressure is created from sufficient flow

A conductivity sensor is used to detect leaks of fluids around equipment.

OUTSIDE AIR SENSOR

A temperature sensor is inserted into the water pipeline to monitor the boiler supply water temperature.

WATER MIXING VALVE

Three-way valves are used to mix return and supply water and chilled and hot water together.

AIR VOLUME CONTROL

A dual humidity and temperature transmitter is outside the building to prove a zone. The occupancy is determined by the concentration of RHRS radiation shield.

ROOM TEMPERATURE AND CARBON DIOXIDE

A wall mounted temperature and humidity transmitter is used to change the amount of hot water added to the heating coil. Zone valves are used to change the flow of water past. A zone valve is used to change the amount of water added to the heating coil. Zone valves can include heating coils of hot water that are placed in the zone to monitor the zone conditions and determine demand.

VARIABLE-AIR-VOLUME APPLICATION

VAV systems can include heating coils of hot water that are placed in the zone to monitor the zone conditions and determine demand.

WATER FLOW CONTROL

A water flow meter is used to monitor the differential pressure between upstream and downstream as a feedback signal.

ROOM TEMPERATURE AND HUMIDITY

A wall mounted temperature and humidity transmitter is used to change the amount of hot water added to the heating coil. Zone valves are used to change the flow of water past. A zone valve is used to change the amount of water added to the heating coil. Zone valves can include heating coils of hot water that are placed in the zone to monitor the zone conditions and determine demand.

LEED® is a registered trademark of the U.S. Green Building Council.

The following chart shows referenced products to be used in LEED projects. The chart is based on the LEED Green Building Rating System and was developed in consultation with the USGBC. The products are referenced in the LEED Green Building Rating System and are to be used in LEED projects. For more information, please visit the following website:

HEATING & COOLING APPLICATION

PRODUCTS APPLIED FOR
HEATING & COOLING APPLICATION

- RHP-W Humidity and Temperature Transmitter
- FS-2, V8 or V7 Flow Switch
- RHP Humidity/Temperature Transmitter with optional
- CDT Carbon Dioxide and Temperature Monitor
- DX Pressure Switch
- DDA Damper Actuator and 616KD
- TE-I RTD Temperature Sensor with Thermowell
- ZV1 or ZV2 Zone Valves
- SCS Current Switch
- GV Globe Valve with EVA Electric Actuator, or 3ABV Ball Valve
- RHRS radiation shield
- Mold Prevention
- Thermal Comfort - Ventilation
- Thermal Comfort - Design
- Controllability of Systems - Thermal
- Indoor Chemical and Pollution Control
- Management Plan - Before Occupancy
- Construction Indoor Air Quality
- Outdoor Air Delivery Innovation
- Enhanced Commissioning
- Fundamental Commissioning of
- Innovative Wastewater Technologies
- Water Efficient Landscaping
- Stormwater Control
- Description

See more at www.usgbc.org.

LEED (Leadership in Energy and Environmental Design) Green Building Rating System is the nationally accepted benchmark for design, construction, and operation of high performance green buildings. Dwyer is proud to be a member of the U.S. Green Building Council and to be helping build a greener future. To find out more about LEED go to www.usgbc.org.

ASB HOW CAN WE HELP YOU WITH LEED

Building Classification
- Prerequisite 1
- IEQ
- EA
- WE 1
- SS 6.1

Credit Weighting (Points) by

Building Classification
- Prerequisite 2
- IEQ 7.1
- IEQ 6.2
- IEQ 5

PRODUCTS APPLIED FOR
VARIABLE-AIR-VOLUME APPLICATION

- Humidity Transmitter, Water Detector
- Differential Pressure Transmitter, CO2 Transmitter
- Handheld Humidity, Handheld Pressure, Humidity Transmitter, Zone Valve, Level Indicator
- Humidity Transmitter, CO2 Transmitter, Differential Pressure Transmitter, Zone Valve, Level Indicator
- Humidity Transmitter, CO2, Differential Pressure Transmitter, Pressure Switch, Differential Pressure Gage
- Differential Pressure Transmitter, Differential Pressure Switch, Differential Pressure Gage/Switch - Digital
- Differential Pressure Transmitter, Differential Pressure Switch, Differential Pressure Gage, Pressure Switch, Differential Pressure Gage/Switch - Digital, Valve Actuator
- Pitot Tube, Differential Pressure Transmitter, Air Velocity Transmitter, Air Flow Station, Pitot Tube, Test Equipment
- Pressure Handheld, Velocity Handheld, Pitot Tube, Test Equipment
- Level, Flowmeter, Valves

See more at www.dwyer-inst.com/Html/Dwyer_products.html
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3. Monitor the current usage of the fan.
   - Product used: SCS Current Switch

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- Product used: RHP Humidity/Temperature Transmitter

DUCT TEMPERATURE SENSOR
A temperature sensor is inserted into the duct to monitor the supply air, mix air, and exhaust air temperature.

- Products used: TE-D Series Temperature Sensor or TE-A Averaging Temperature Sensor

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- Product used: DF Pleated Filters

FROZEN COIL ALARM
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- Products used: ADPS Pressure Switch or EDPS UL508 listed Pressure Switch

PRODUCTS APPLIED FOR AIR-HANDLER APPLICATION

- Request our Building Automation Catalog, CT-BA via email to: lit@dwyer-inst.com

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- Products used: ADPS Pressure Switch or EDPS UL508 listed Pressure Switch
HEATING & COOLING APPLICATION

- Monitor the differential pressure between upstream and downstream of the pump.
- Monitor the water flow exiting the pump.
- Monitor the current usage of the pump.
- Ensure proper differential pressure is created from sufficient flow through the chiller.

VARIABLE-AIR-VOLUME APPLICATION

- Water level in the air handling unit and return air fan.
- Water level in the condenser.
- Water level in the sampling chamber.
- Water level in the outdoor air.

OUTSIDE AIR SENSOR

- Monitor the outdoor air humidity and temperature.
- A dual humidity and temperature transmitter is outside the building to monitor the outdoor air humidity and temperature.

LEAK DETECTION/DRIP PAN MONITOR

- A conductivity sensor is used to detect leaks of fluids around equipment and valves or to detect full drip pans.

PUMP VALIDATION/FLOW PROVING

- Monitor the water flow exiting the pump.
- Monitor the current usage of the pump.

PRODUCTS APPLIED FOR

- Humidity and Temperature
- Current Switch
- Differential Pressure Transmitter
- RTD Temperature Sensor with Thermowell
- Leak Detectors
- Flow Switch
- Globe Valve with Electric Actuator
- Damper Actuator
- Pressure Switch
- Carbon Dioxide and Temperature

For more at www.dwyer-inst.com/leed/leed_profile.cfm

LEED® is a registered trademark of the U.S. Green Building Council.

The following chart shows where Dwyer Instruments products have the potential to help buildings acquire LEED®. The LEED (Leadership in Energy and Environmental Design) Green Building Rating System is the nationally accepted standard for green building. To find out more about LEED go to www.usgbc.org.
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