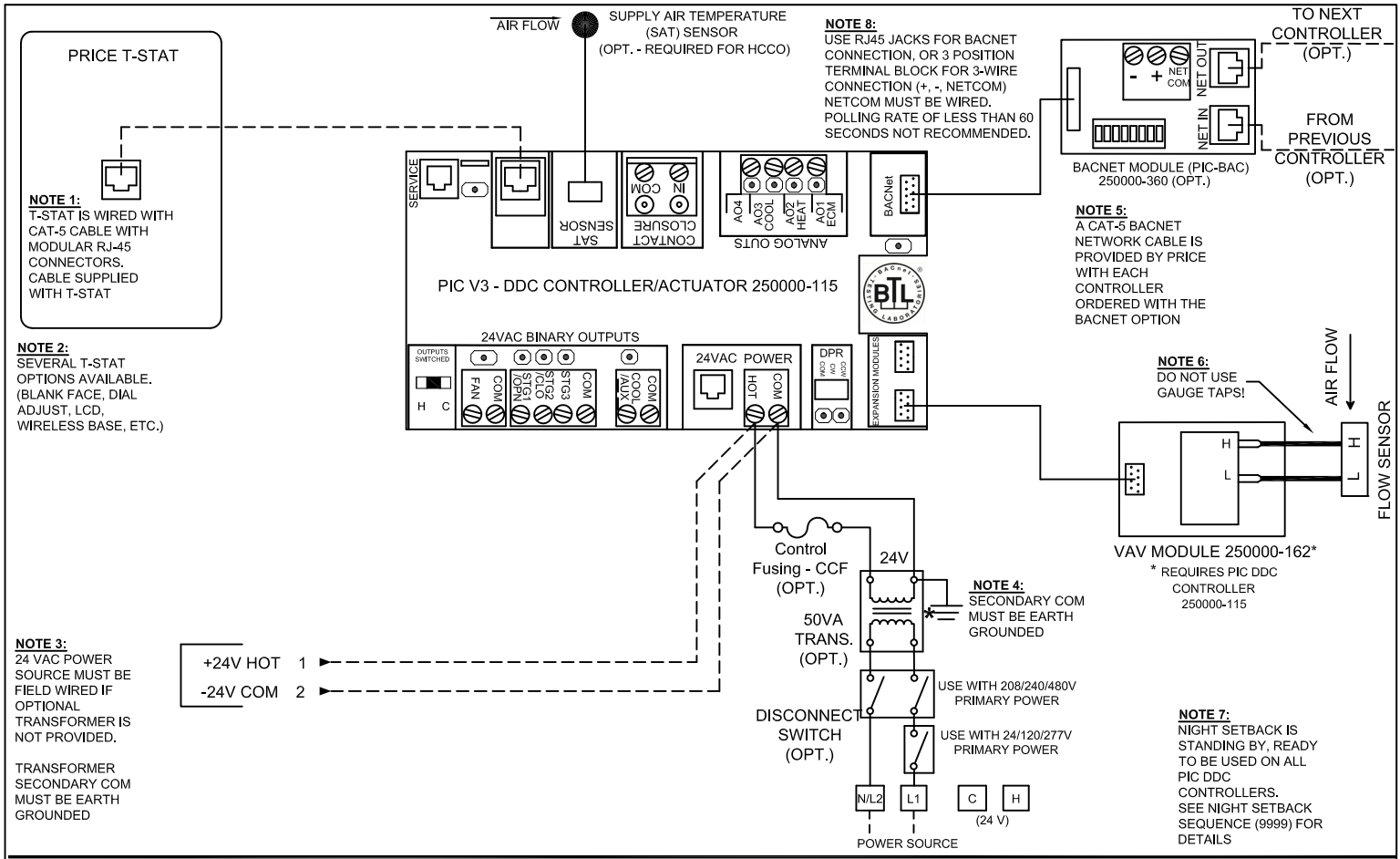
SINGLE DUCT DIGITAL CONTROLS

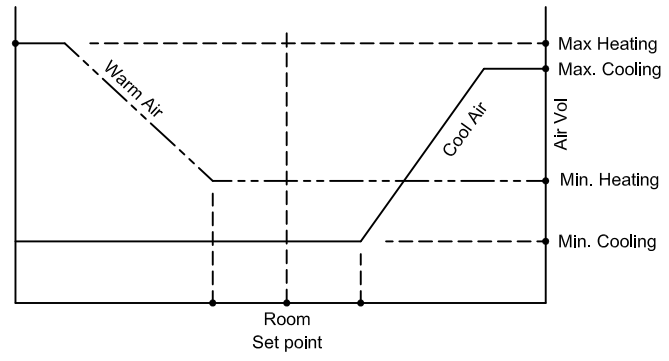
Control Sequence Number 2800



LEGEND

- FACTORY FLOW SENSOR TUBING
- FACTORY ELECTRICAL WIRING
- FIELD ELECTRICAL WIRING

CONTROL GRAPH



Sequence of Operation -- Heat/cool changeover OR cooling only Pressure Independent

On power up the damper will calibrate closed for 2 minutes.

If no SAT sensor is present, the controller assumes Cool supply air at all times

Cool supply air: On an increase in space temperature the controller regulates the actuator to open the VAV damper and increase the flow of cool air. On an increase of space temperature greater than the cooling proportional band, the airflow is maintained at its pre-selected maximum setting.

On a decrease in space temperature the controller regulates the actuator to close the VAV damper and reduce the flow of cool air. If the space temperature decreases to less than the cooling proportional band, the airflow is maintained at the pre-selected minimum setting.

Warm supply air: On a decrease in space temperature the controller regulates the actuator to open the VAV damper and increase the flow of warm air. On a decrease of space temperature greater than the heating proportional band, the airflow is maintained at the pre-selected minimum setting.

On an increase in space temperature the controller regulates the actuator to close the VAV damper and reduce the flow of warm air. If the space temperature increases above the heating proportional band, the airflow is maintained at the pre-selected minimum setting.

PROJECT:			
ENGINEER:		BC MB	**SINGLE DUCT PIC DDC** PRESSURE INDEPENDENT HEAT/COOL CHANGEOVER OR COOLING ONLY NO LOCAL REHEAT CONTROL
CUSTOMER:		249530	
SUBMITTAL DATE:	**SPEC. SYMBOL:**	2025/10/06	

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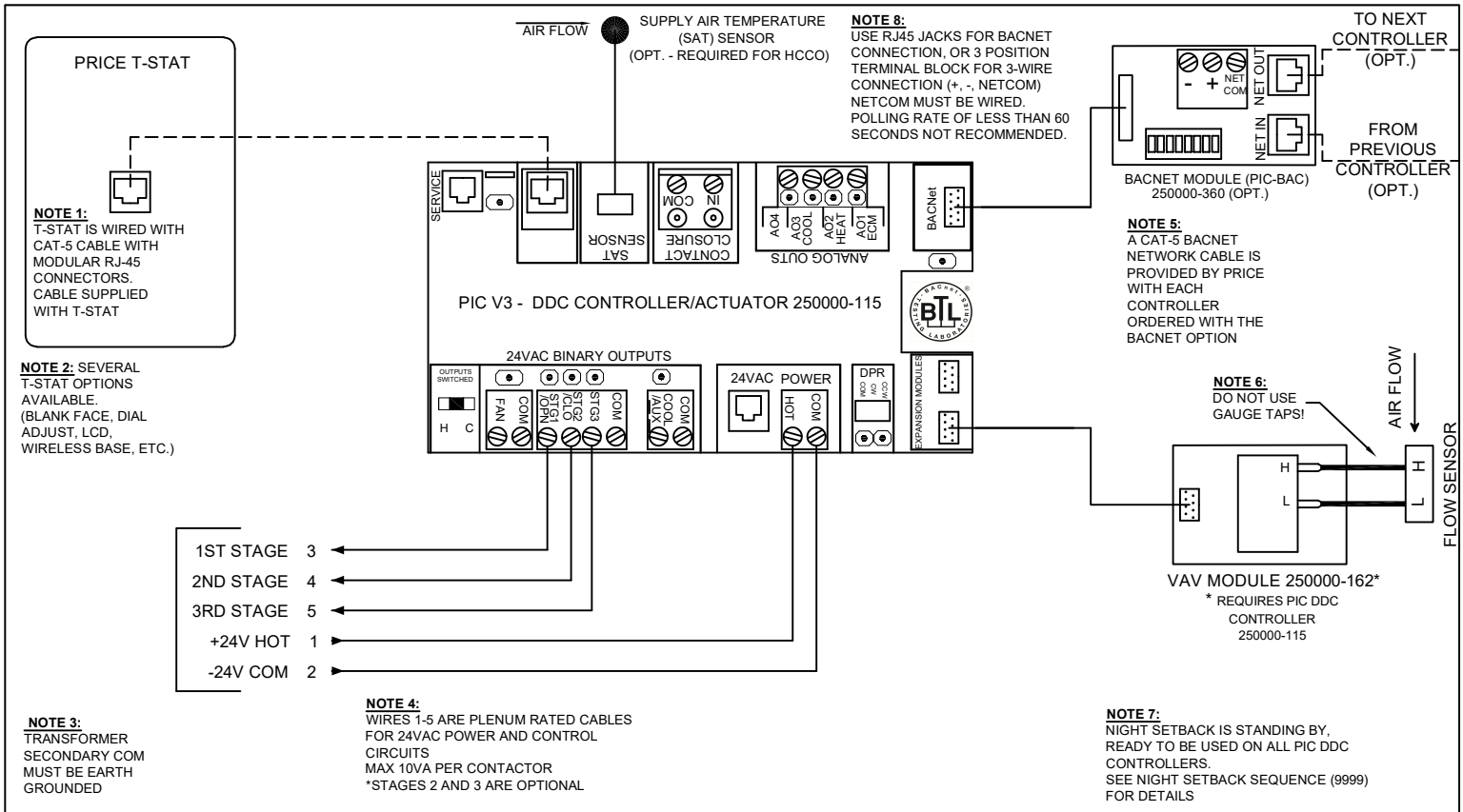
REV H

SINGLE DUCT DIGITAL CONTROLS

Control Sequence Number 2801

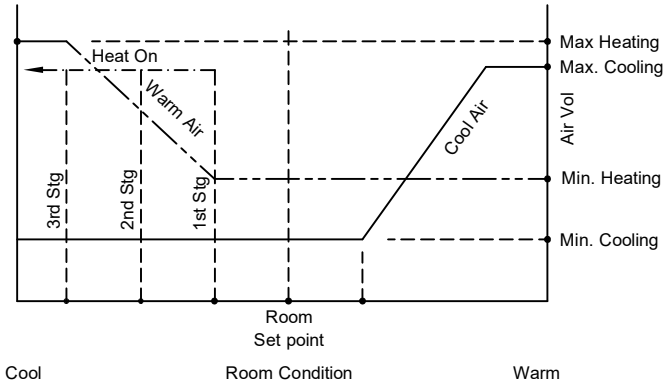


Calibration note: Suitable min and max heating flows must be selected in order to maintain flow through energized electric coils of at least 200 fpm and at least 70 cfm/kW throughout the entire operating range.

LEGEND

- FACTORY FLOW SENSOR TUBING
- FACTORY ELECTRICAL WIRING
- FIELD ELECTRICAL WIRING

CONTROL GRAPH



Sequence of Operation -- Heat/cool changeover OR cooling
With up to 3 stage binary reheat - Pressure Independent

On power up the damper will calibrate closed for 2 minutes.
If no SAT sensor is present, the controller assumes Cool supply air at all times

Cool supply air: On an increase in space temperature the controller regulates the actuator to open the VAV damper and increase the flow of cool air. On an increase of space temperature greater than the cooling proportional band, the airflow is maintained at its pre-selected maximum setting.

On a decrease in space temperature the controller regulates the actuator to close the VAV damper and reduce the flow of cool air. If the space temperature decreases to less than the cooling proportional band, the airflow is maintained at the pre-selected minimum setting.

Warm supply air: On a decrease in space temperature the controller regulates the actuator to open the VAV damper and increase the flow of warm air. On a decrease of space temperature greater than the heating proportional band, the airflow is maintained at its pre-selected maximum setting.

On an increase in space temperature the controller regulates the actuator to close the VAV damper and reduce the flow of warm air. If the space temperature increases above the heating proportional band, the airflow is maintained at the pre-selected minimum setting.

Reheat Operation: On a decrease in space temperature into the heating proportional band, the 1st stage binary 24VAC reheat output will energize. Upon futher decreases, the 2nd then 3rd stages of reheat (if used) will energize.

PROJECT:		
ENGINEER:		BC MB
CUSTOMER:		249531
SUBMITTAL DATE:	**SPEC. SYMBOL:**	2025/09/29

SINGLE DUCT
PIC DDC
PRESSURE INDEPENDENT
HEAT/COOL C/O OR COOLING
WITH UP TO 3 STG BINARY REHEAT
FACTORY WIRED

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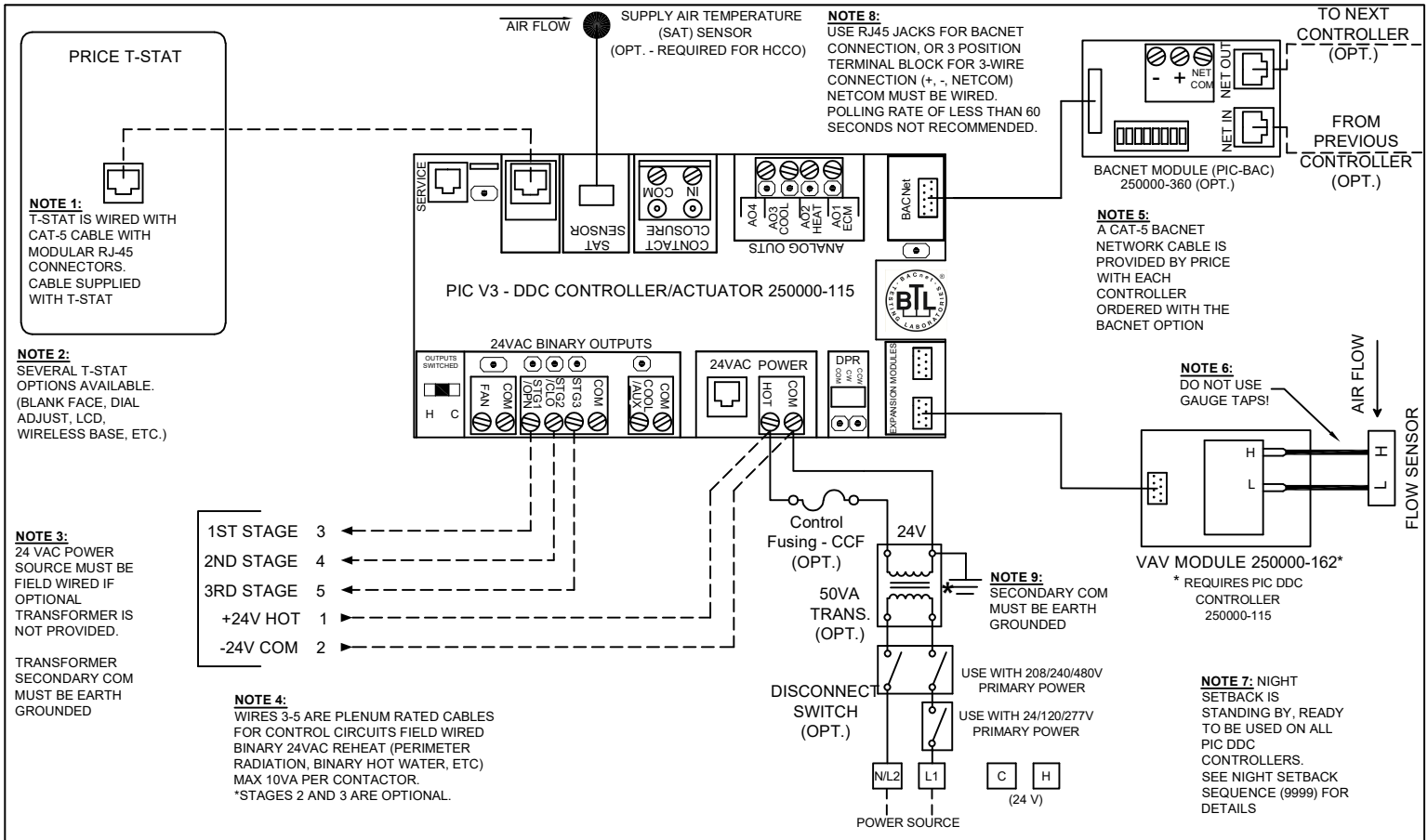
REV H

SINGLE DUCT DIGITAL CONTROLS

Control Sequence Number 2802



Calibration note: Suitable min and max heating flows must be selected in order to maintain flow through energized electric coils of at least 200 fpm and at least 70 cfm/kW throughout the entire operating range.

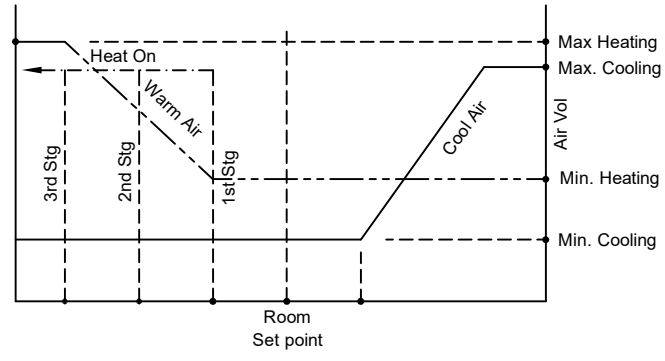
LEGEND

FACTORY FLOW SENSOR TUBING

FACTORY ELECTRICAL WIRING

FIELD ELECTRICAL WIRING

CONTROL GRAPH



Sequence of Operation -- Heat/cool changeover OR cooling
With up to 3 stage binary reheat - Pressure Independent

On power up the damper will calibrate closed for 2 minutes.
If no SAT sensor is present, the controller assumes Cool supply air at all times

Cool supply air: On an increase in space temperature the controller regulates the actuator to open the VAV damper and increase the flow of cool air. On an increase of space temperature greater than the cooling proportional band, the airflow is maintained at its pre-selected maximum setting.

On a decrease in space temperature the controller regulates the actuator to close the VAV damper and reduce the flow of cool air. If the space temperature decreases to less than the cooling proportional band, the airflow is maintained at the pre-selected minimum setting.

Warm supply air: On a decrease in space temperature the controller regulates the actuator to open the VAV damper and increase the flow of warm air. On a decrease of space temperature greater than the heating proportional band, the airflow is maintained at its pre-selected maximum setting.

On an increase in space temperature the controller regulates the actuator to close the VAV damper and reduce the flow of warm air. If the space temperature increases above the heating proportional band, the airflow is maintained at the pre-selected minimum setting.

Reheat Operation: On a decrease in space temperature into the heating proportional band, the 1st stage binary 24VAC reheat output will energize. Upon futher decreases, the 2nd then 3rd stages of reheat (if used) will energize.

PROJECT:		
ENGINEER:		**SINGLE DUCT PIC DDC** PRESSURE INDEPENDENT HEAT/COOL C/O OR COOLING WITH UP TO 3 STG BINARY REHEAT FIELD WIRED
CUSTOMER:		249532
SUBMITTAL DATE:	**SPEC. SYMBOL:**	2025/09/29

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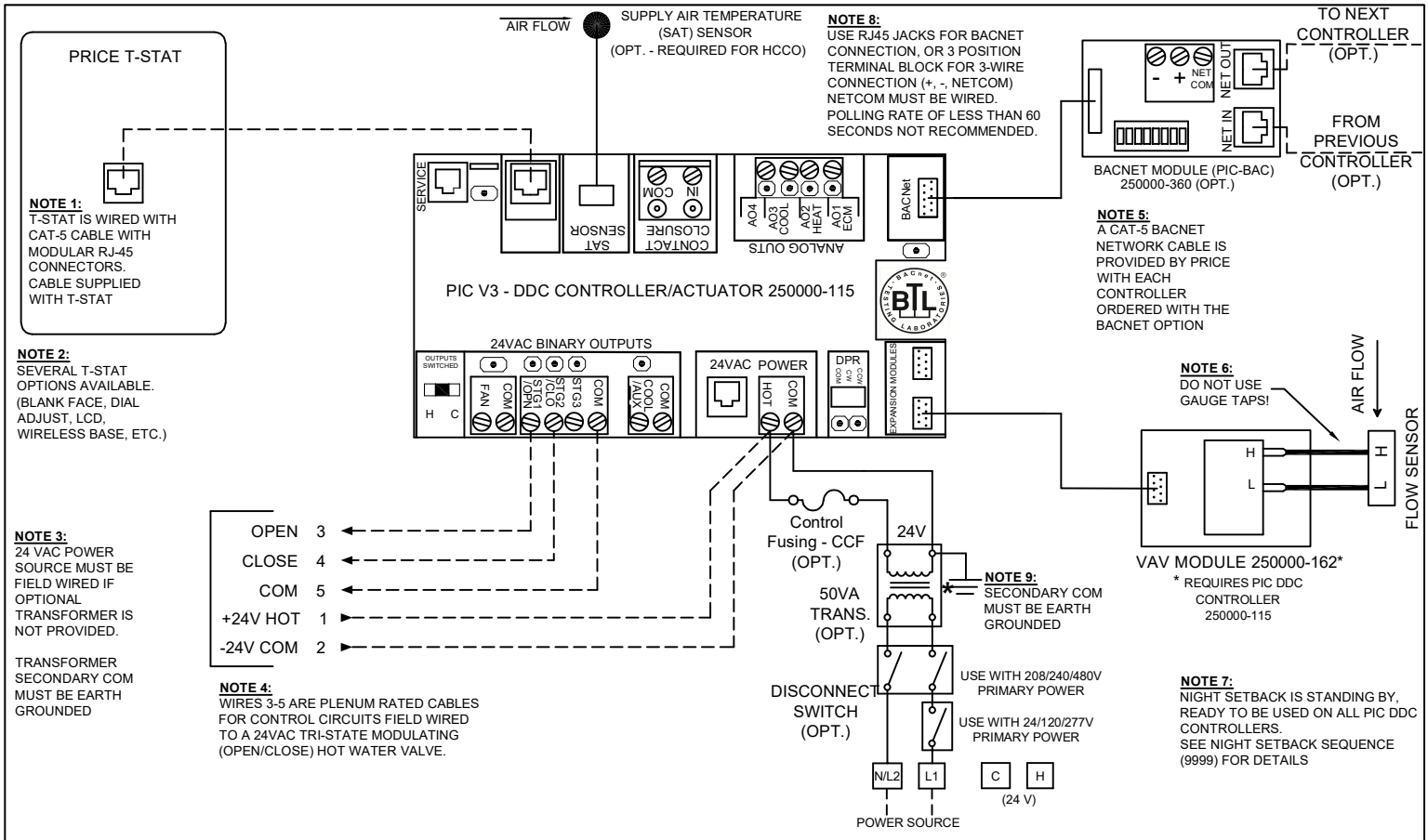
REV H

SINGLE DUCT DIGITAL CONTROLS

Control Sequence Number 2803



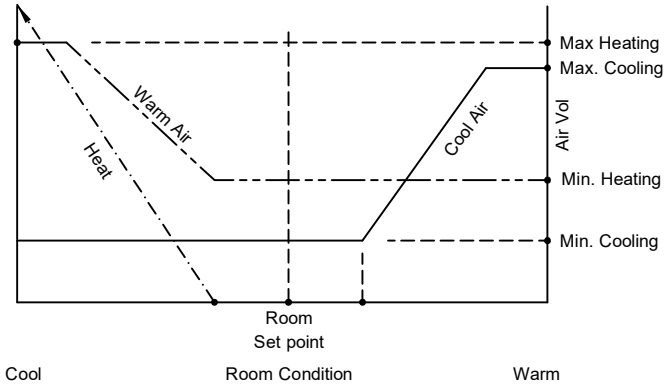
LEGEND

FACTORY FLOW SENSOR TUBING

FACTORY ELECTRICAL WIRING

FIELD ELECTRICAL WIRING

CONTROL GRAPH



Sequence of Operation -- Heat/cool changeover OR cooling With Tri-State modulating HW reheat - Pressure Independent

On power up the damper will calibrate closed for 2 minutes.

If no SAT sensor is present, the controller assumes Cool supply air at all times

Cool supply air: On an increase in space temperature the controller regulates the actuator to open the VAV damper and increase the flow of cool air. On an increase of space temperature greater than the cooling proportional band, the airflow is maintained at its pre-selected maximum setting.

On a decrease in space temperature the controller regulates the actuator to close the VAV damper and reduce the flow of cool air. If the space temperature decreases to less than the cooling proportional band, the airflow is maintained at the pre-selected minimum setting.

Warm supply air: On a decrease in space temperature the controller regulates the actuator to open the VAV damper and increase the flow of warm air. On a decrease of space temperature greater than the heating proportional band, the airflow is maintained at its pre-selected maximum setting.

On an increase in space temperature the controller regulates the actuator to close the VAV damper and reduce the flow of warm air. If the space temperature increases above the heating proportional band, the airflow is maintained at the pre-selected minimum setting.

Reheat Operation: On a decrease in space temperature, the heating valve is modulated to increase heat proportionally to the room demand.

PROJECT:		
ENGINEER:		**SINGLE DUCT PIC DDC** PRESSURE INDEPENDENT HEAT/COOL C/O OR COOLING WITH TRI-STATE MODULATING HOT WATER REHEAT, FIELD WIRED
CUSTOMER:	249533	
SUBMITTAL DATE:	**SPEC. SYMBOL:** 2025/09/29	

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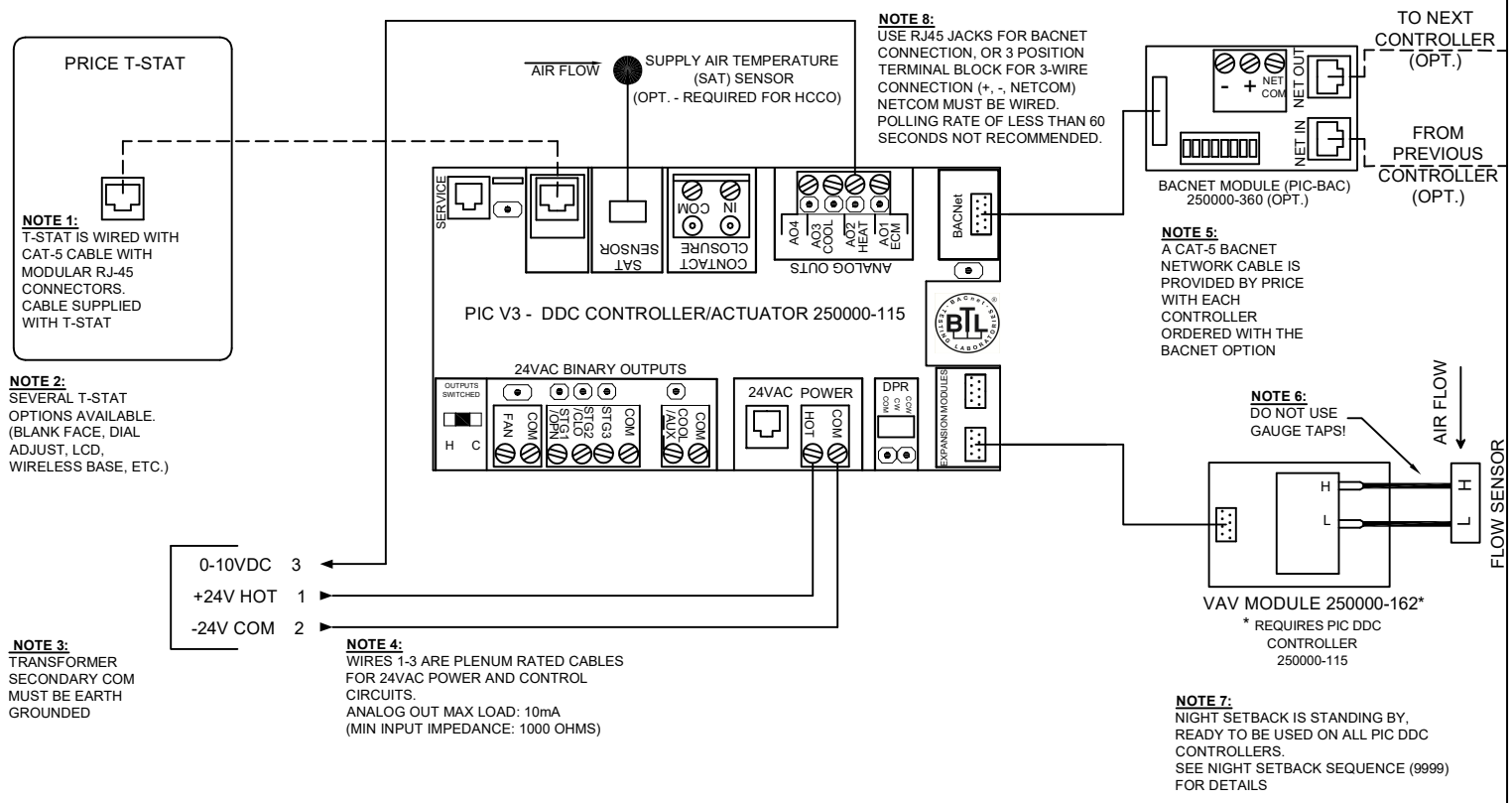
REV H

SINGLE DUCT DIGITAL CONTROLS

Control Sequence Number 2804



Calibration note: Suitable min and max heating flows must be selected in order to maintain flow through energized electric coils of at least 200 fpm and at least 70 cfm/kW throughout the entire operating range.

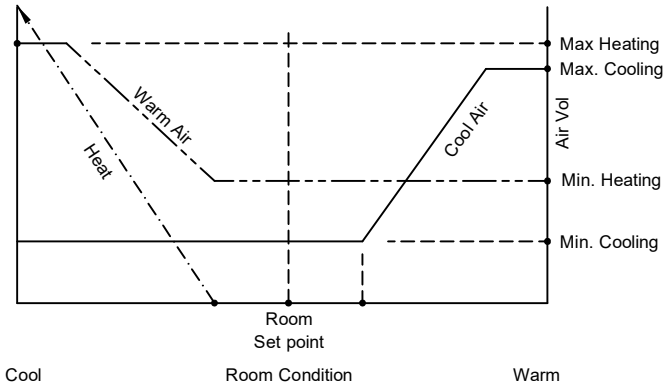
LEGEND

FACTORY FLOW SENSOR TUBING

FACTORY ELECTRICAL WIRING

FIELD ELECTRICAL WIRING

CONTROL GRAPH



Sequence of Operation -- Heat/cool changeover OR cooling With Analog modulating reheat - Pressure Independent

On power up the damper will calibrate closed for 2 minutes.

If no SAT sensor is present, the controller assumes Cool supply air at all times

Cool supply air: On an increase in space temperature the controller regulates the actuator to open the VAV damper and increase the flow of cool air. On an increase of space temperature greater than the cooling proportional band, the airflow is maintained at its pre-selected maximum setting.

On a decrease in space temperature the controller regulates the actuator to close the VAV damper and reduce the flow of cool air. If the space temperature decreases to less than the cooling proportional band, the airflow is maintained at the pre-selected minimum setting.

Warm supply air: On a decrease in space temperature the controller regulates the actuator to open the VAV damper and increase the flow of warm air. On a decrease of space temperature greater than the heating proportional band, the airflow is maintained at its pre-selected maximum setting.

On an increase in space temperature the controller regulates the actuator to close the VAV damper and reduce the flow of warm air. If the space temperature increases above the heating proportional band, the airflow is maintained at the pre-selected minimum setting.

Reheat Operation: On a decrease in space temperature, the controller modulates the 0-10VDC ouput to increase heat proportionally to the room demand.

PROJECT:			
ENGINEER:		BC MB	**SINGLE DUCT PIC DDC** PRESSURE INDEPENDENT HEAT/COOL C/O OR COOLING WITH ANALOG ELECTRIC HEAT FACTORY WIRED
CUSTOMER:		249534	
SUBMITTAL DATE:	**SPEC. SYMBOL:**	2025/09/25	

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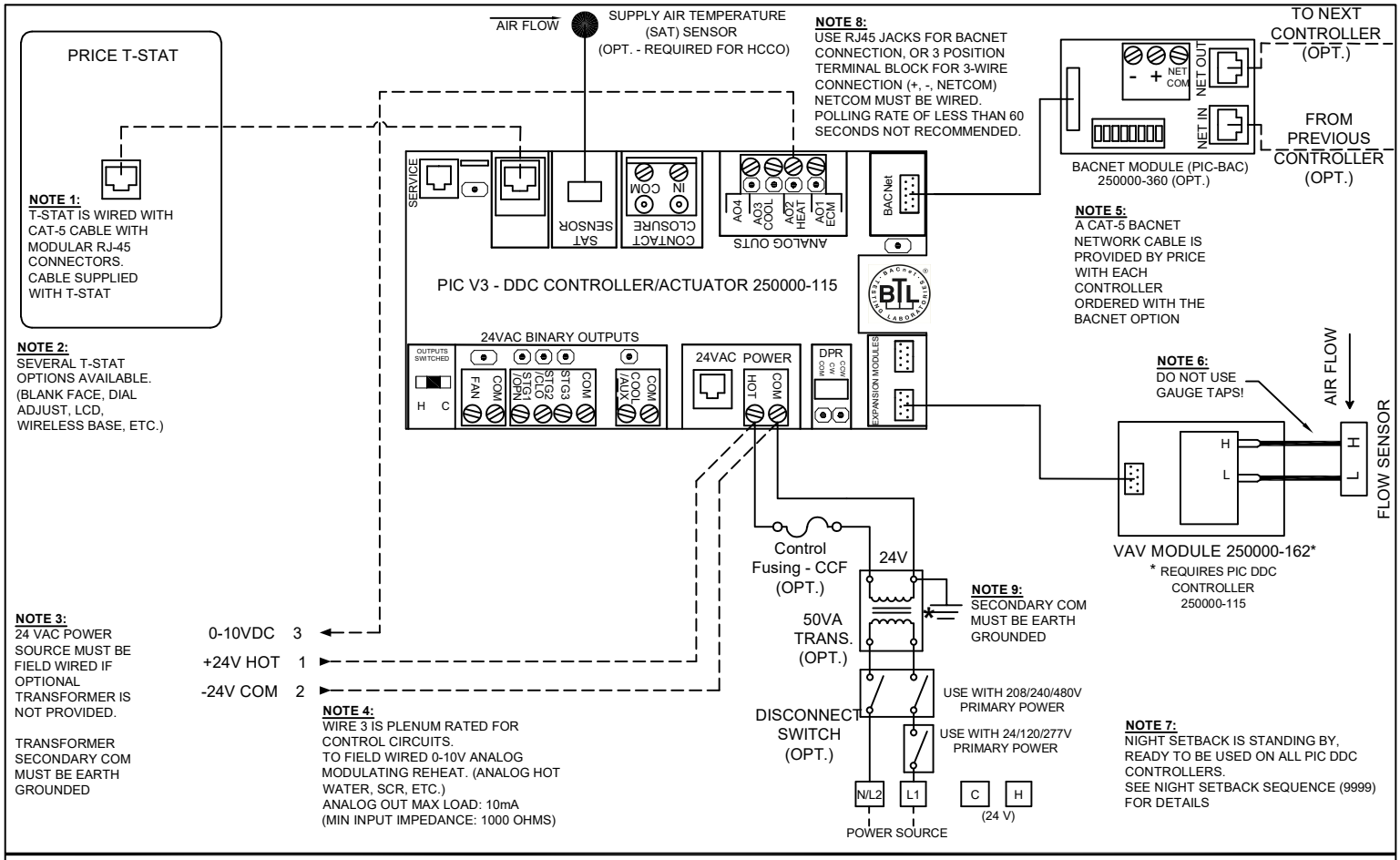
REV H

SINGLE DUCT DIGITAL CONTROLS

Control Sequence Number 2805



Calibration note: Suitable min and max heating flows must be selected in order to maintain flow through energized electric coils of at least 200 fpm and at least 70 cfm/kW throughout the entire operating range.

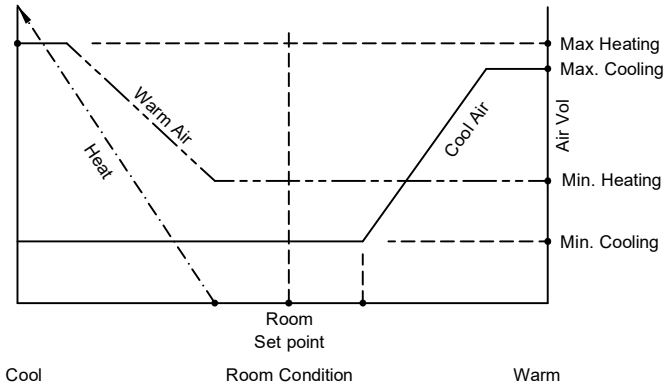
LEGEND

FACTORY FLOW SENSOR TUBING

FACTORY ELECTRICAL WIRING

FIELD ELECTRICAL WIRING

CONTROL GRAPH



Sequence of Operation -- Heat/cool changeover OR cooling With Analog modulating reheat - Pressure Independent

On power up the damper will calibrate closed for 2 minutes.

If no SAT sensor is present, the controller assumes Cool supply air at all times

Cool supply air: On an increase in space temperature the controller regulates the actuator to open the VAV damper and increase the flow of cool air. On an increase of space temperature greater than the cooling proportional band, the airflow is maintained at its pre-selected maximum setting.

On a decrease in space temperature the controller regulates the actuator to close the VAV damper and reduce the flow of cool air. If the space temperature decreases to less than the cooling proportional band, the airflow is maintained at the pre-selected minimum setting.

Warm supply air: On a decrease in space temperature the controller regulates the actuator to open the VAV damper and increase the flow of warm air. On a decrease of space temperature greater than the heating proportional band, the airflow is maintained at its pre-selected maximum setting.

On an increase in space temperature the controller regulates the actuator to close the VAV damper and reduce the flow of warm air. If the space temperature increases above the heating proportional band, the airflow is maintained at the pre-selected minimum setting.

Reheat Operation: On a decrease in space temperature, the controller modulates the 0-10VDC ouput to increase heat proportionally to the room demand.

PROJECT:		
ENGINEER:		**SINGLE DUCT PIC DDC** PRESSURE INDEPENDENT HEAT/COOL C/O OR COOLING WITH ANALOG HEAT FIELD WIRED
CUSTOMER:	249535	
SUBMITTAL DATE: **SPEC. SYMBOL:**	2025/10/25	

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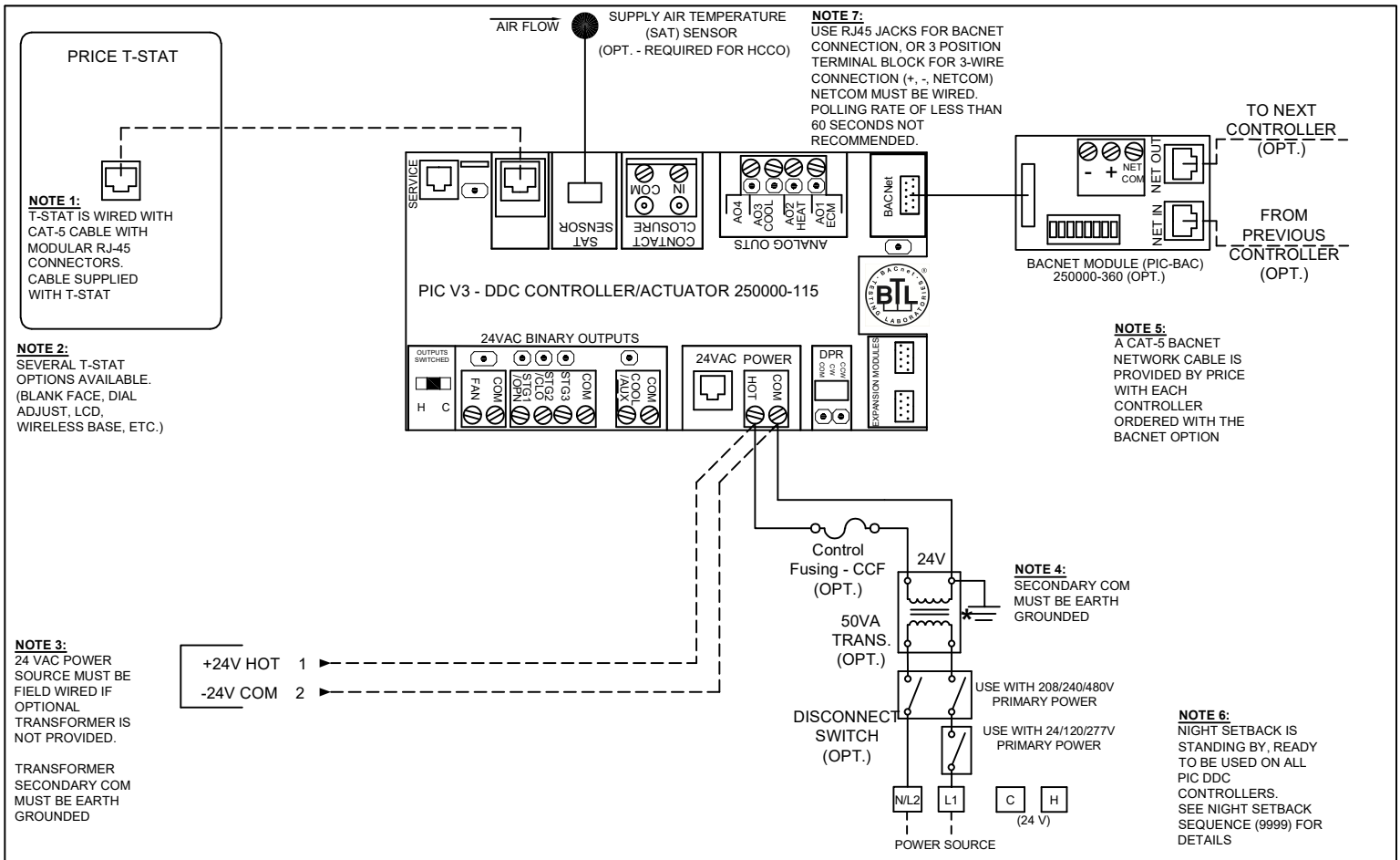
REV H

SINGLE DUCT DIGITAL CONTROLS

Control Sequence Number 2850

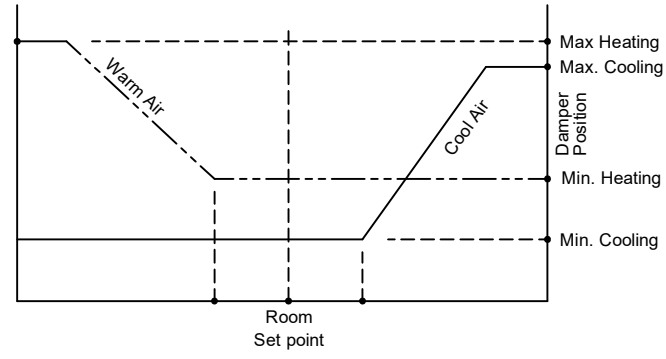


LEGEND

FACTORY ELECTRICAL WIRING

FIELD ELECTRICAL WIRING

CONTROL GRAPH



Sequence of Operation -- Heat/cool changeover OR cooling only Pressure Dependent

On power up the damper will calibrate closed for 2 minutes.

If no SAT sensor is present, the controller assumes Cool supply air at all times

Cool supply air: On an increase in space temperature the controller regulates the actuator to open the air damper and increase the flow of cool air. On an increase of space temperature greater than the cooling proportional band, the damper position (%) is maintained at its pre-selected maximum setting.

On a decrease in space temperature the controller regulates the actuator to close the air damper and reduce the flow of cool air. If the space temperature decreases to less than the cooling proportional band, the damper position (%) is maintained at the pre-selected minimum setting.

Warm supply air: On a decrease in space temperature the controller regulates the actuator to open the air damper and increase the flow of warm air. On a decrease of space temperature greater than the heating proportional band, the damper position (%) is maintained at its pre-selected maximum setting.

On an increase in space temperature the controller regulates the actuator to close the air damper and reduce the flow of warm air. If the space temperature increases above the heating proportional band, the damper position (%) is maintained at the pre-selected minimum setting.

PROJECT:		
ENGINEER:		BC MB
CUSTOMER:		249536
SUBMITTAL DATE:	**SPEC. SYMBOL:**	2025/09/29

SINGLE DUCT
PIC DDC
PRESSURE DEPENDENT
HEAT/COOL CHANGEOVER
OR COOLING ONLY
NO LOCAL REHEAT CONTROL

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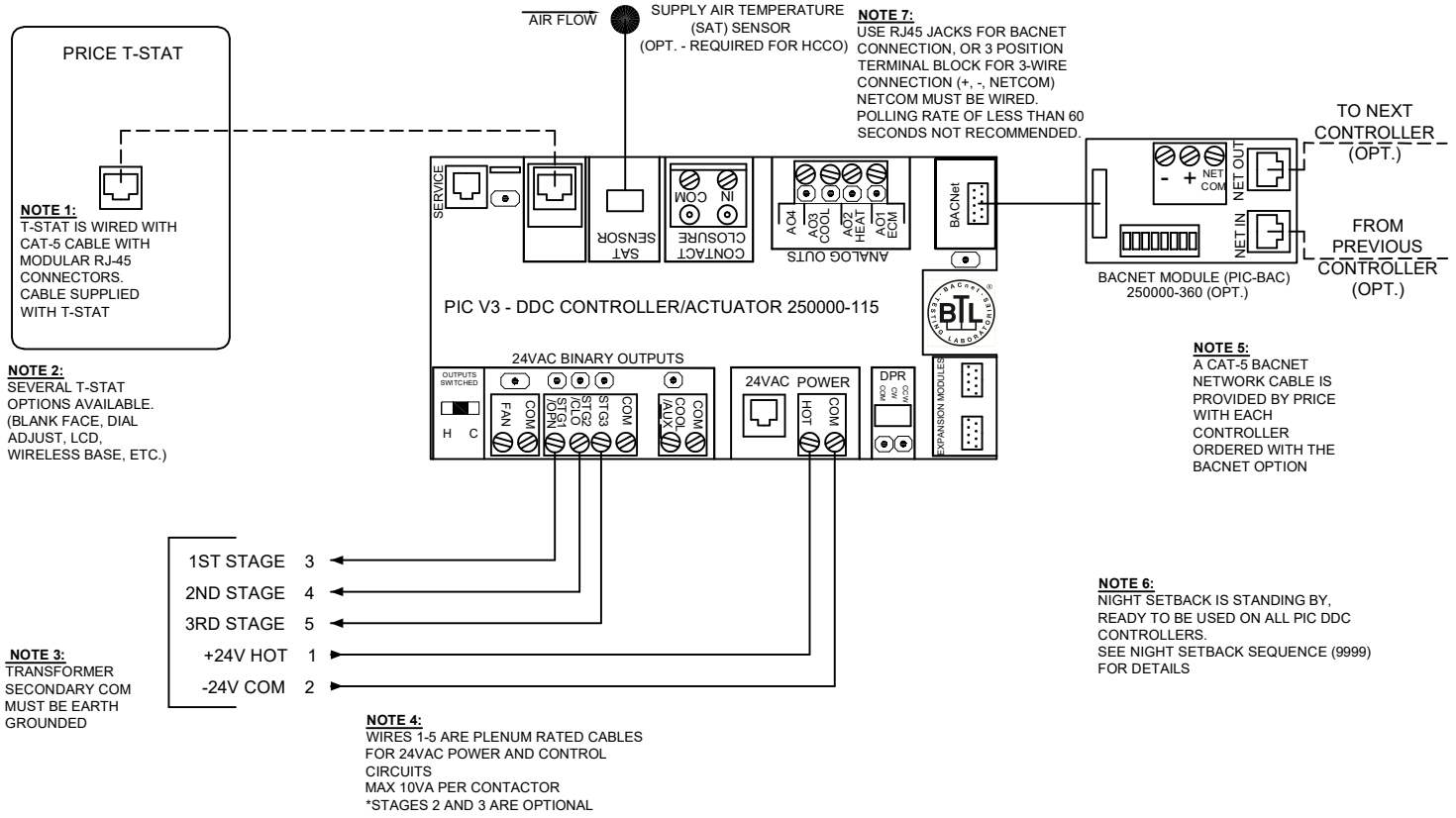
REV G

SINGLE DUCT DIGITAL CONTROLS

Control Sequence Number 2851



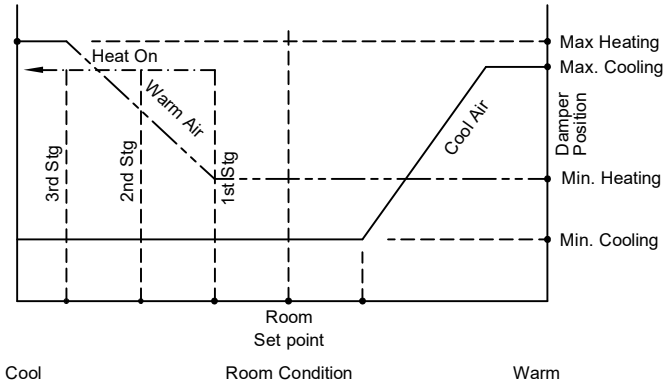
Calibration note: Suitable min and max heating flows must be selected in order to maintain flow through energized electric coils of at least 200 fpm and at least 70 cfm/kW throughout the entire operating range.

LEGEND

FACTORY ELECTRICAL WIRING

FIELD ELECTRICAL WIRING

CONTROL GRAPH



Sequence of Operation -- Heat/cool changeover OR cooling
With up to 3 stage binary reheat - Pressure Dependent

On power up the damper will calibrate closed for 2 minutes.
If no SAT sensor is present, the controller assumes Cool supply air at all times

Cool supply air: On an increase in space temperature the controller regulates the actuator to open the air damper and increase the flow of cool air. On an increase of space temperature greater than the cooling proportional band, the damper position (%) is maintained at its pre-selected maximum setting.

On a decrease in space temperature the controller regulates the actuator to close the air damper and reduce the flow of cool air. If the space temperature decreases to less than the cooling proportional band, the damper position (%) is maintained at the pre-selected minimum setting.

Warm supply air: On a decrease in space temperature the controller regulates the actuator to open the air damper and increase the flow of warm air. On a decrease of space temperature greater than the heating proportional band, the damper position (%) is maintained at its pre-selected maximum setting.

On an increase in space temperature the controller regulates the actuator to close the air damper and reduce the flow of warm air. If the space temperature increases above the heating proportional band, the damper position (%) is maintained at the pre-selected minimum setting.

Reheat Operation: On a decrease in space temperature into the heating proportional band, the 1st stage binary 24VAC reheat output will energize. Upon futher decreases, the 2nd then 3rd stages of reheat (if used) will energize.

PROJECT:		
ENGINEER:		BC MB
CUSTOMER:		249537
SUBMITTAL DATE:	**SPEC. SYMBOL:**	2025/10/02

SINGLE DUCT
PIC DDC
PRESSURE DEPENDENT
HEAT/COOL C/O OR COOLING
WITH UP TO 3 STG BINARY REHEAT
FACTORY WIRED

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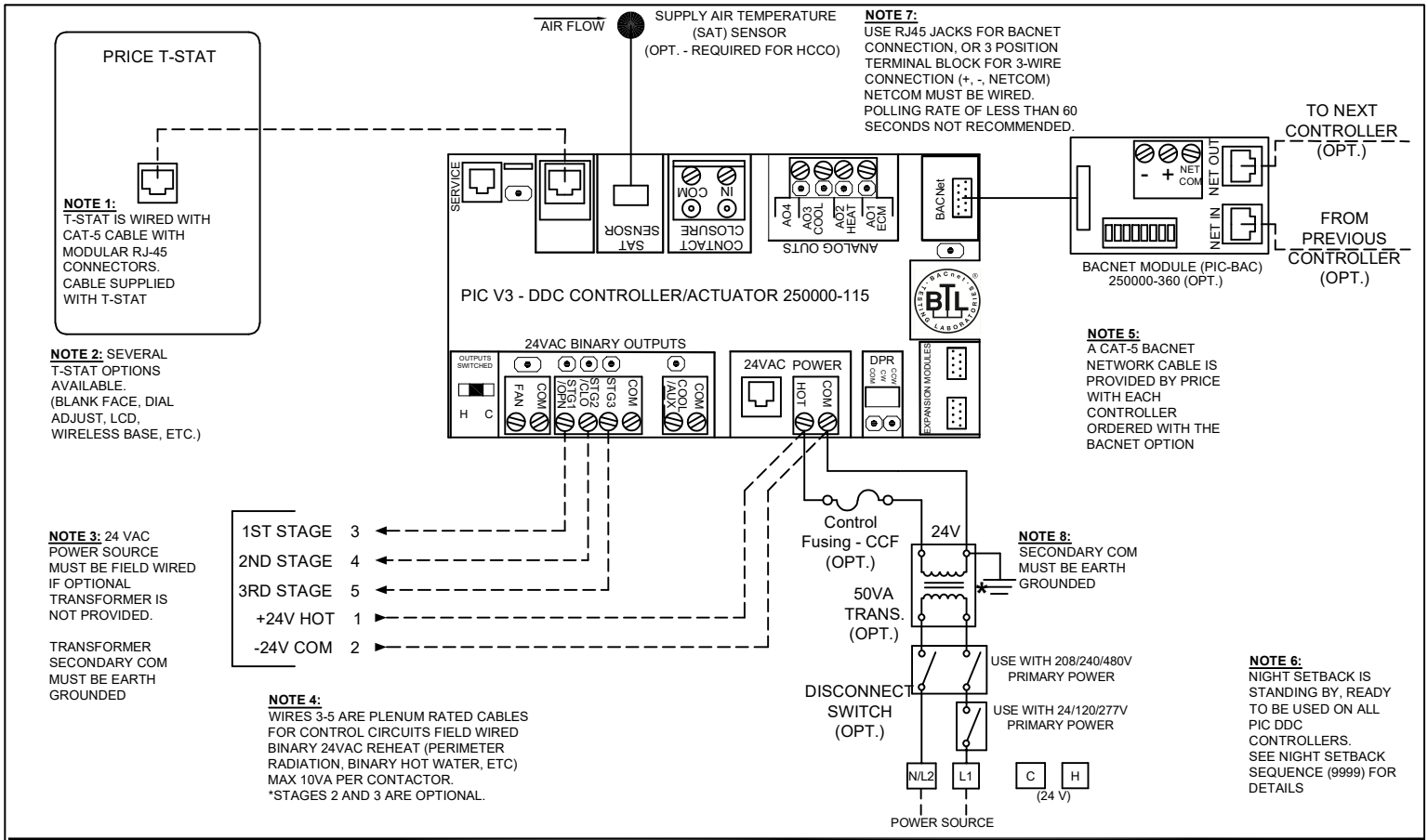
REV G

SINGLE DUCT DIGITAL CONTROLS

Control Sequence Number 2852



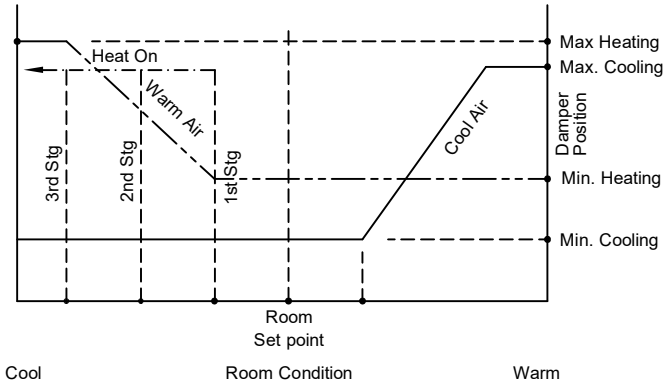
Calibration note: Suitable min and max heating flows must be selected in order to maintain flow through energized electric coils of at least 200 fpm and at least 70 cfm/kW throughout the entire operating range.

LEGEND

FACTORY ELECTRICAL WIRING

FIELD ELECTRICAL WIRING

CONTROL GRAPH



Sequence of Operation -- Heat/cool changeover OR cooling
With up to 3 stage binary reheat - Pressure Dependent

On power up the damper will calibrate closed for 2 minutes.
If no SAT sensor is present, the controller assumes Cool supply air at all times

Cool supply air: On an increase in space temperature the controller regulates the actuator to open the air damper and increase the flow of cool air. On an increase of space temperature greater than the cooling proportional band, the damper position (%) is maintained at its pre-selected maximum setting.

On a decrease in space temperature the controller regulates the actuator to close the air damper and reduce the flow of cool air. If the space temperature decreases to less than the cooling proportional band, the damper position (%) is maintained at the pre-selected minimum setting.

Warm supply air: On a decrease in space temperature the controller regulates the actuator to open the air damper and increase the flow of warm air. On a decrease of space temperature greater than the heating proportional band, the damper position (%) is maintained at its pre-selected maximum setting.

On an increase in space temperature the controller regulates the actuator to close the air damper and reduce the flow of warm air. If the space temperature increases above the heating proportional band, the damper position (%) is maintained at the pre-selected minimum setting.

Reheat Operation: On a decrease in space temperature into the heating proportional band, the 1st stage binary 24VAC reheat output will energize. Upon futher decreases, the 2nd then 3rd stages of reheat (if used) will energize.

PROJECT:		
ENGINEER:		**SINGLE DUCT** **PIC DDC** PRESSURE DEPENDENT HEAT/COOL C/O OR COOLING WITH UP TO 3 STG BINARY REHEAT FIELD WIRED
CUSTOMER:	249538	
SUBMITTAL DATE:	**SPEC. SYMBOL:** 2025/09/29	

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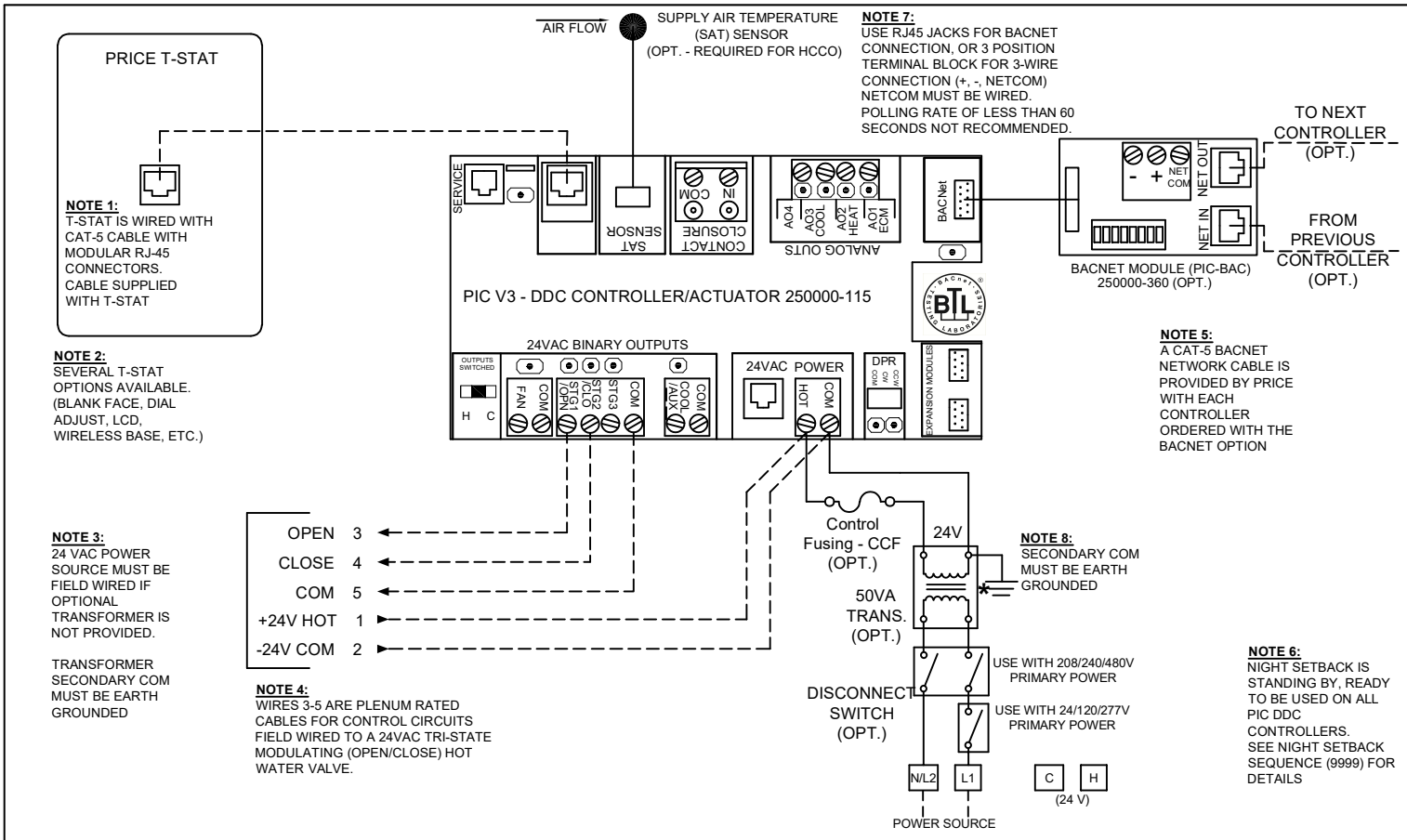
REV G

SINGLE DUCT DIGITAL CONTROLS

Control Sequence Number 2853

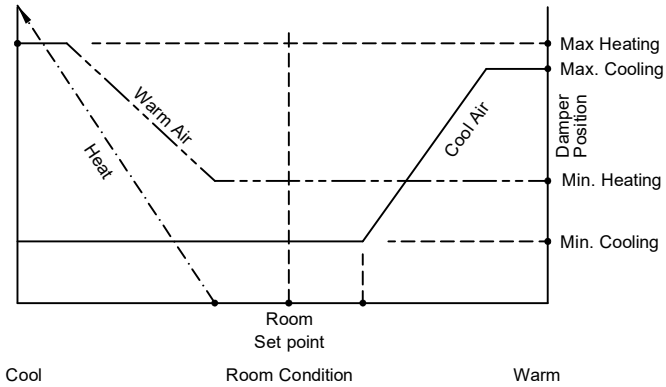


LEGEND

FACTORY ELECTRICAL WIRING

FIELD ELECTRICAL WIRING

CONTROL GRAPH



Sequence of Operation -- Heat/cool changeover OR cooling With Tri-State modulating HW reheat - Pressure Dependent

On power up the damper will calibrate closed for 2 minutes.

If no SAT sensor is present, the controller assumes Cool supply air at all times

Cool supply air: On an increase in space temperature the controller regulates the actuator to open the air damper and increase the flow of cool air. On an increase of space temperature greater than the cooling proportional band, the damper position (%) is maintained at its pre-selected maximum setting.

On a decrease in space temperature the controller regulates the actuator to close the air damper and reduce the flow of cool air. If the space temperature decreases to less than the cooling proportional band, the damper position (%) is maintained at the pre-selected minimum setting.

Warm supply air: On a decrease in space temperature the controller regulates the actuator to open the air damper and increase the flow of warm air. On a decrease of space temperature greater than the heating proportional band, the damper position (%) is maintained at its pre-selected maximum setting.

On an increase in space temperature the controller regulates the actuator to close the air damper and reduce the flow of warm air. If the space temperature increases above the heating proportional band, the damper position (%) is maintained at the pre-selected minimum setting.

Reheat Operation: On a decrease in space temperature, the heating valve is modulated to increase heat proportionally to the room demand.

PROJECT:			
ENGINEER:		BC MB	**SINGLE DUCT PIC DDC** PRESSURE DEPENDENT HEAT/COOL C/O OR COOLING WITH TRI-STATE MODULATING HOT WATER REHEAT, FIELD WIRED
CUSTOMER:		249539	
SUBMITTAL DATE:	**SPEC. SYMBOL:**	2025/09/29	

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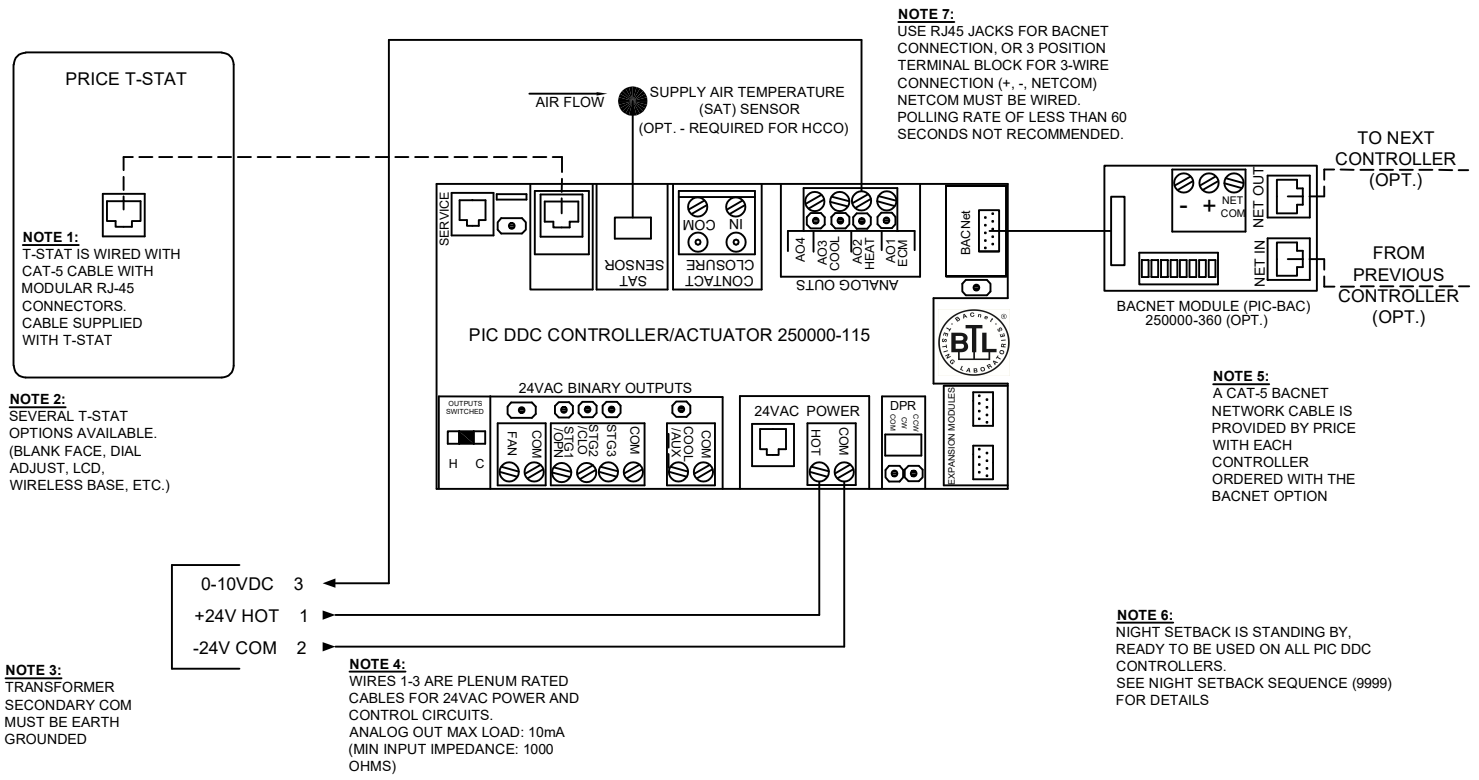
REV G

SINGLE DUCT DIGITAL CONTROLS

Control Sequence Number 2854



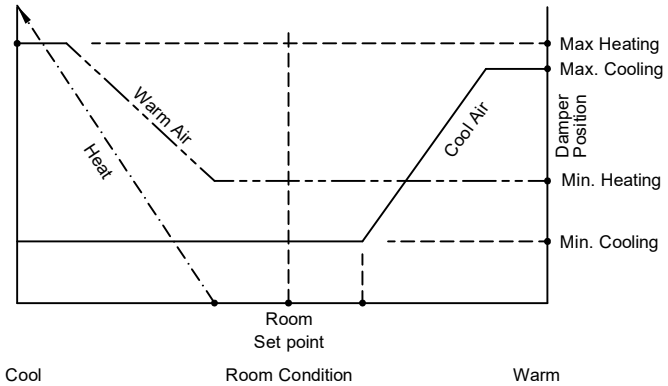
Calibration note: Suitable min and max heating flows must be selected in order to maintain flow through energized electric coils of at least 200 fpm and at least 70 cfm/kW throughout the entire operating range.

LEGEND

FACTORY ELECTRICAL WIRING

FIELD ELECTRICAL WIRING

CONTROL GRAPH



Sequence of Operation -- Heat/cool changeover OR cooling With Analog modulating reheat - Pressure Dependent

On power up the damper will calibrate closed for 2 minutes.

If no SAT sensor is present, the controller assumes Cool supply air at all times

Cool supply air: On an increase in space temperature the controller regulates the actuator to open the air damper and increase the flow of cool air. On an increase of space temperature greater than the cooling proportional band, the damper position (%) is maintained at its pre-selected maximum setting.

On a decrease in space temperature the controller regulates the actuator to close the air damper and reduce the flow of cool air. If the space temperature decreases to less than the cooling proportional band, the damper position (%) is maintained at the pre-selected minimum setting.

Warm supply air: On a decrease in space temperature the controller regulates the actuator to open the air damper and increase the flow of warm air. On a decrease of space temperature greater than the heating proportional band, the damper position (%) is maintained at its pre-selected maximum setting.

On an increase in space temperature the controller regulates the actuator to close the air damper and reduce the flow of warm air. If the space temperature increases above the heating proportional band, the damper position (%) is maintained at the pre-selected minimum setting.

Reheat Operation: On a decrease in space temperature, the controller modulates the 0-10VDC ouput to increase heat proportionally to the room demand.

PROJECT:			
ENGINEER:			**SINGLE DUCT PIC DDC** PRESSURE DEPENDENT HEAT/COOL C/O OR COOLING WITH ANALOG ELECTRIC HEAT FACTORY WIRED
CUSTOMER:		249540	
SUBMITTAL DATE:	**SPEC. SYMBOL:**	2025/10/25	

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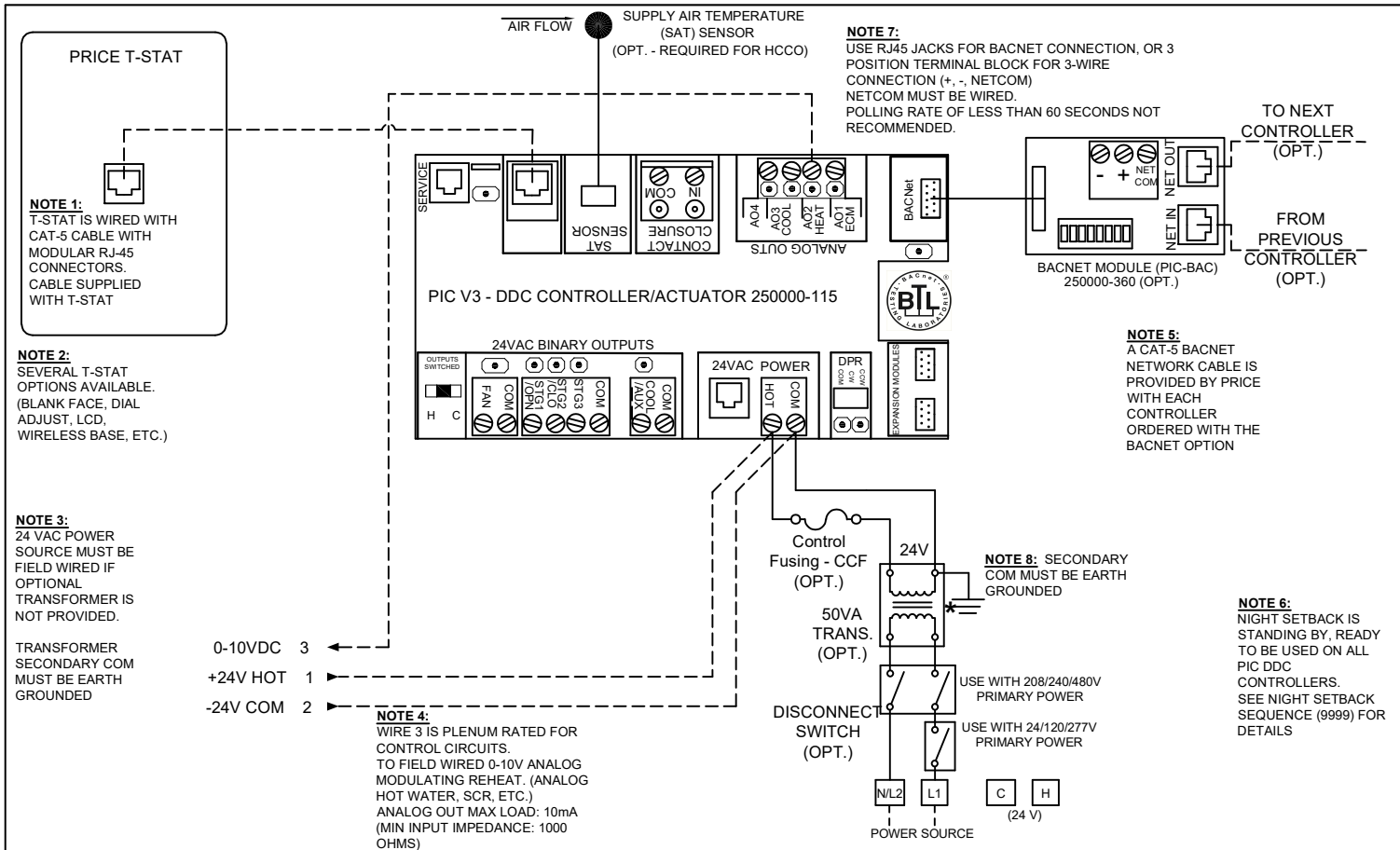
REV H

SINGLE DUCT DIGITAL CONTROLS

Control Sequence Number 2855



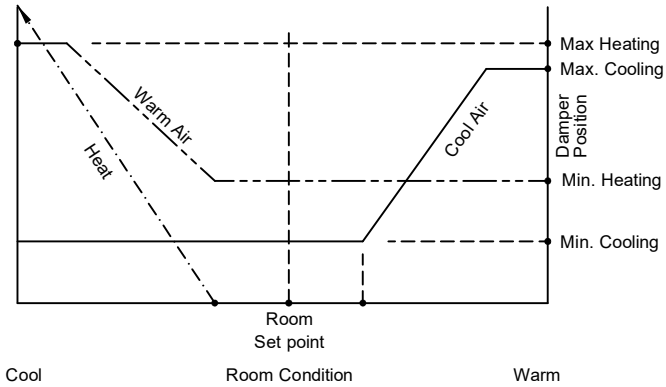
Calibration note: Suitable min and max heating flows must be selected in order to maintain flow through energized electric coils of at least 200 fpm and at least 70 cfm/kW throughout the entire operating range.

LEGEND

FACTORY ELECTRICAL WIRING

FIELD ELECTRICAL WIRING

CONTROL GRAPH



Sequence of Operation -- Heat/cool changeover OR cooling With Analog modulating reheat - Pressure Dependent

On power up the damper will calibrate closed for 2 minutes.

If no SAT sensor is present, the controller assumes Cool supply air at all times

Cool supply air: On an increase in space temperature the controller regulates the actuator to open the air damper and increase the flow of cool air. On an increase of space temperature greater than the cooling proportional band, the damper position (%) is maintained at its pre-selected maximum setting.

On a decrease in space temperature the controller regulates the actuator to close the air damper and reduce the flow of cool air. If the space temperature decreases to less than the cooling proportional band, the damper position (%) is maintained at the pre-selected minimum setting.

Warm supply air: On a decrease in space temperature the controller regulates the actuator to open the air damper and increase the flow of warm air. On a decrease of space temperature greater than the heating proportional band, the damper position (%) is maintained at its pre-selected maximum setting.

On an increase in space temperature the controller regulates the actuator to close the air damper and reduce the flow of warm air. If the space temperature increases above the heating proportional band, the damper position (%) is maintained at the pre-selected minimum setting.

Reheat Operation: On a decrease in space temperature, the controller modulates the 0-10VDC ouput to increase heat proportionally to the room demand.

PROJECT:		
ENGINEER:		BC MB
CUSTOMER:		249541
SUBMITTAL DATE:	**SPEC. SYMBOL:**	2025/10/03

SINGLE DUCT
PIC DDC
PRESSURE DEPENDENT
HEAT/COOL C/O OR COOLING
WITH ANALOG HEAT
FIELD WIRED

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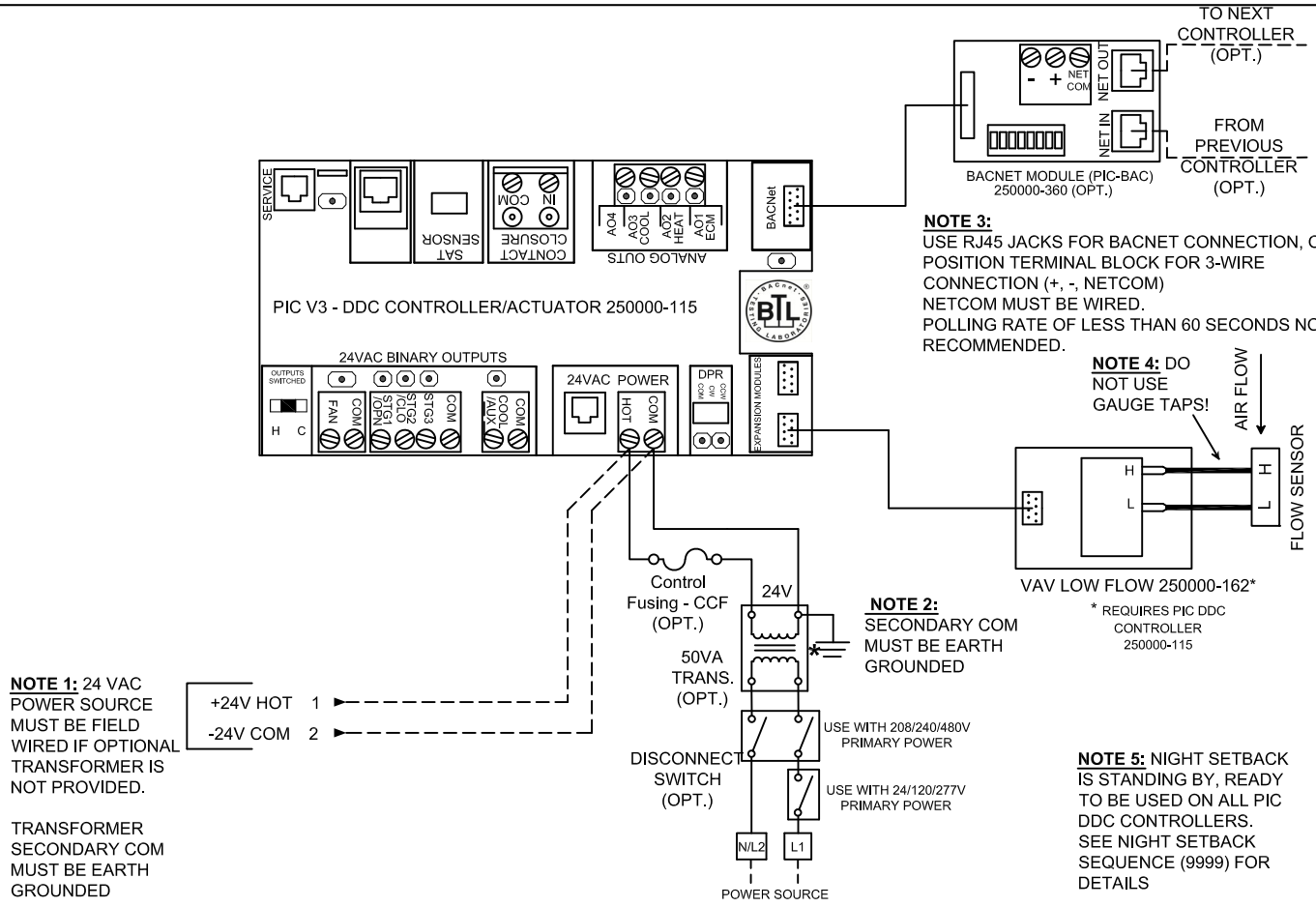
REV G

SINGLE DUCT EXHAUST DIGITAL CONTROLS

Control Sequence Number 2900



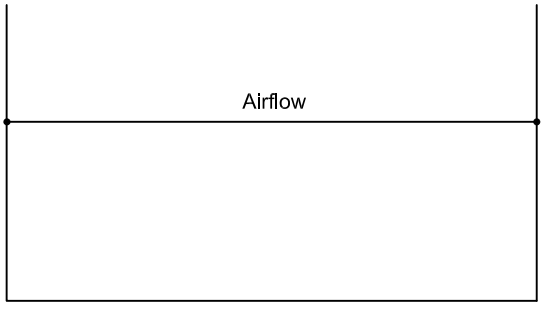
LEGEND

FACTORY FLOW SENSOR TUBING

FACTORY ELECTRICAL WIRING

FIELD ELECTRICAL WIRING

CONTROL GRAPH



Sequence of Operation -- Constant Volume, Pressure Independent.
On power up the damper will calibrate closed for 2 minutes.

The PIC Controller shall maintain a constant airflow.

On an increase in static pressure, the controller regulates the actuator to close the VAV damper and reduce the airflow.

On a decrease in static pressure, the controller regulates the actuator to open the VAV damper and increase the airflow.

PROJECT:			**SDE8000/SDEQ8000 SINGLE DUCT EXHAUST** PIC DDC PRESSURE INDEPENDENT CONSTANT VOLUME
ENGINEER:			
CUSTOMER:		253402	
SUBMITTAL DATE:	**SPEC. SYMBOL:**	2025/10/06	

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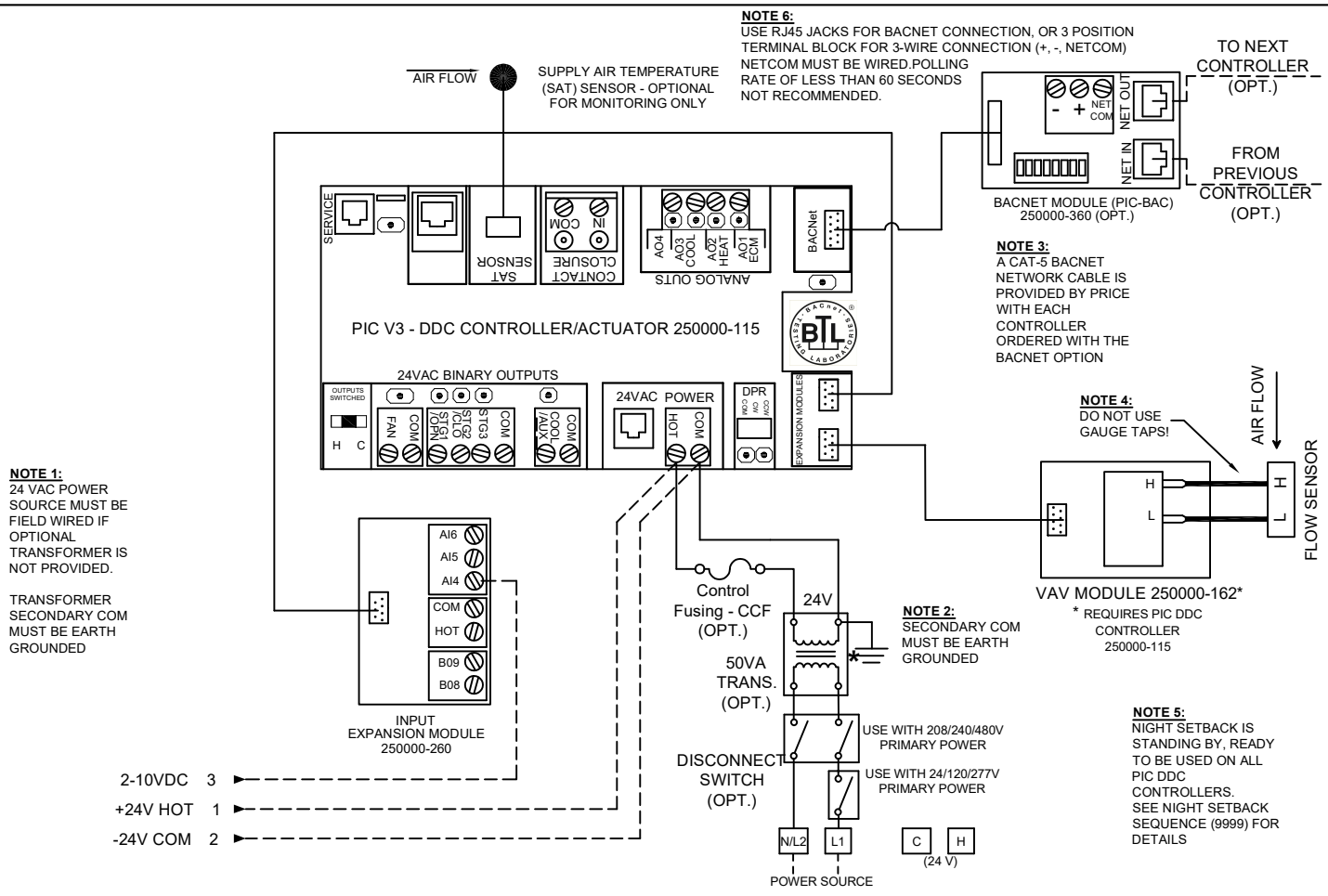
REV E

SINGLE DUCT EXHAUST DIGITAL CONTROLS

Control Sequence Number 2901



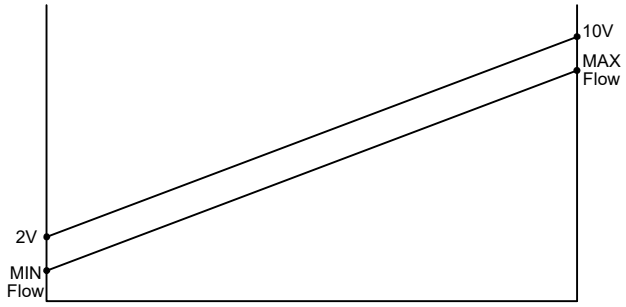
LEGEND

FACTORY FLOW SENSOR TUBING

FACTORY ELECTRICAL WIRING

FIELD ELECTRICAL WIRING

CONTROL GRAPH



Sequence of Operation -- Constant Volume from remote 2-10V setpoint, Pressure Independent.

On power up the damper will calibrate closed for 2 minutes.

***The PIC Controller* s**hall maintain a constant airflow. The airflow setpoint is determined from a scalable 2-10V input.

On an increase in static pressure, the controller regulates the actuator to close the VAV damper and reduce the airflow.

On a decrease in static pressure, the controller regulates the actuator to open the VAV damper and increase the airflow.

Calibration note: Suitable min and max heating flows must be selected in order to maintain flow through energized electric coils of at least 200 fpm and at least 70 cfm/kW throughout the entire operating range.

PROJECT:			
ENGINEER:			**SDE8000/SDEQ8000 SINGLE DUCT EXHAUST** PIC DDC PRESSURE INDEPENDENT CONSTANT VOLUME REMOTE 2-10V SETPOINT
CUSTOMER:		253403	
SUBMITTAL DATE:	**SPEC. SYMBOL:**	2025/10/06	

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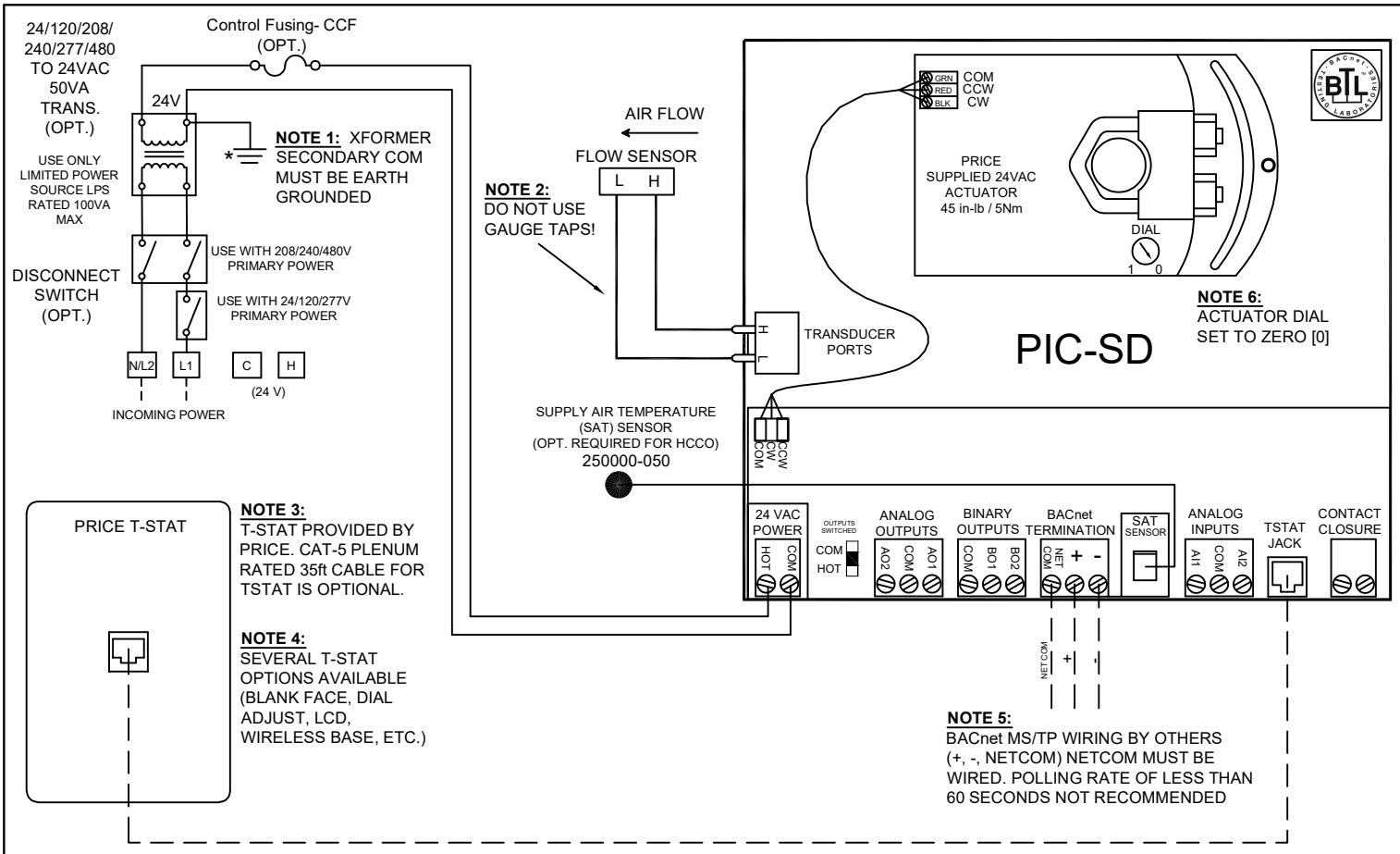
REV E

SINGLE DUCT DIGITAL CONTROLS

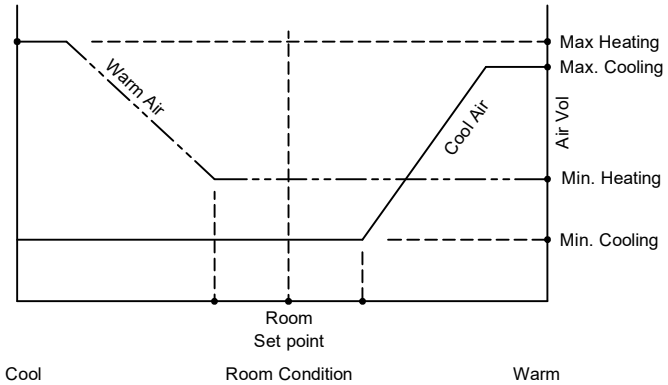
Control Sequence Number 1810



LEGEND

- FACTORY FLOW SENSOR TUBING
- FACTORY ELECTRICAL WIRING
- FIELD ELECTRICAL WIRING

CONTROL GRAPH



Sequence of Operation (PIC-SD) -- Heat/cool changeover OR Cooling only, Pressure Independent

On power up the damper will calibrate closed for 2 minutes.

If no SAT sensor is present, the controller assumes Cool supply air at all times

Cool supply air: On an increase in space temperature the controller regulates the actuator to open the VAV damper and increase the flow of cool air. On an increase of space temperature greater than the cooling proportional band, the airflow is maintained at its pre-selected maximum setting.

On a decrease in space temperature the controller regulates the actuator to close the VAV damper and reduce the flow of cool air. If the space temperature decreases to less than the cooling proportional band, the airflow is maintained at the pre-selected minimum setting.

Warm supply air: On a decrease in space temperature the controller regulates the actuator to open the VAV damper and increase the flow of warm air. On a decrease of space temperature greater than the heating proportional band, the airflow is maintained at its pre-selected maximum setting.

On an increase in space temperature the controller regulates the actuator to close the VAV damper and reduce the flow of warm air. If the space temperature increases above the heating proportional band, the airflow is maintained at the pre-selected minimum setting.

PROJECT:			
ENGINEER:			**SINGLE DUCT** **PIC-SD DDC** PRESSURE INDEPENDENT HEAT/COOL C/O OR COOLING ONLY NO LOCAL REHEAT CONTROL FACTORY WIRED
CUSTOMER:		264666	
SUBMITTAL DATE:	**SPEC. SYMBOL:**	2025/10/16	

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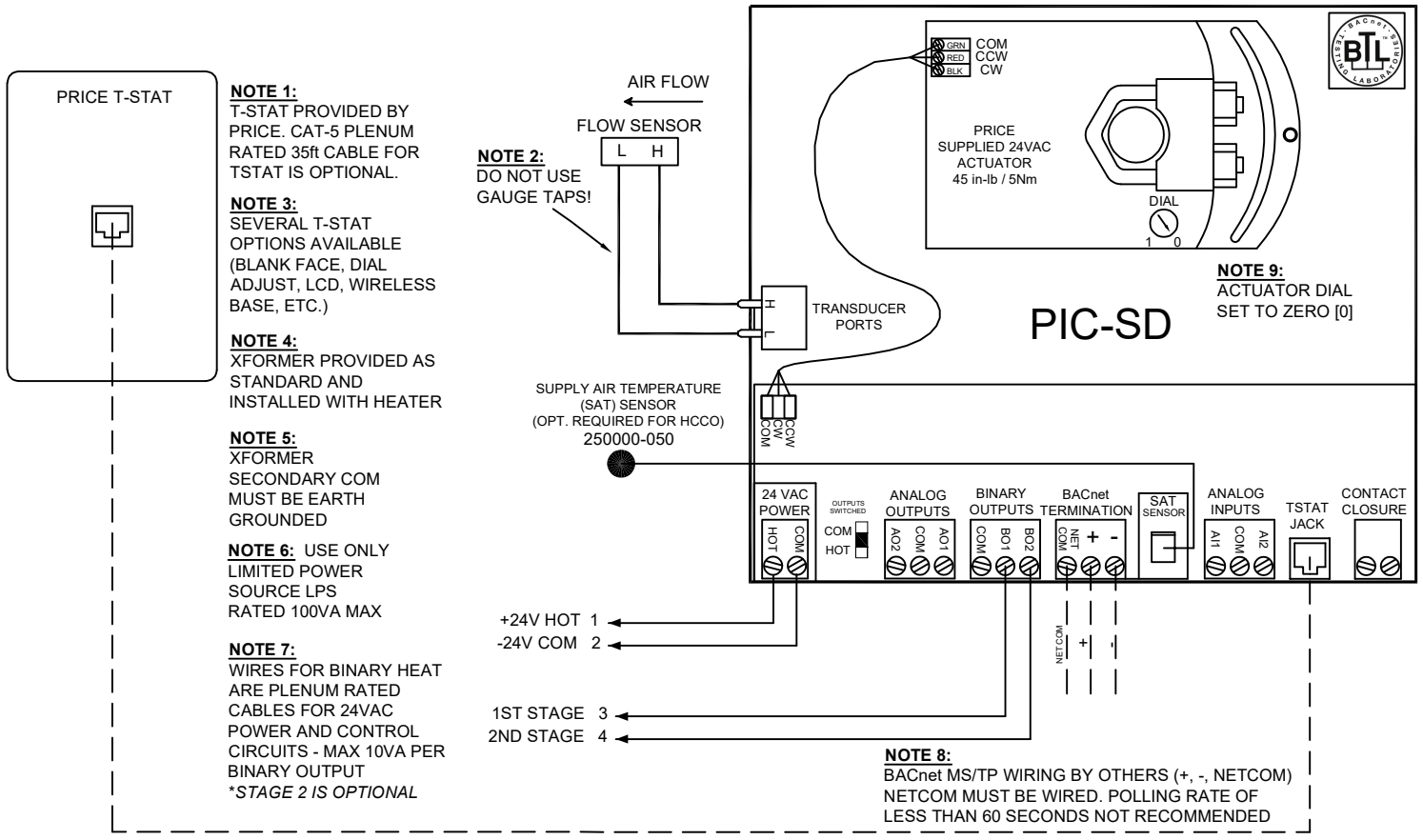
REV E

SINGLE DUCT DIGITAL CONTROLS

Control Sequence Number 1811

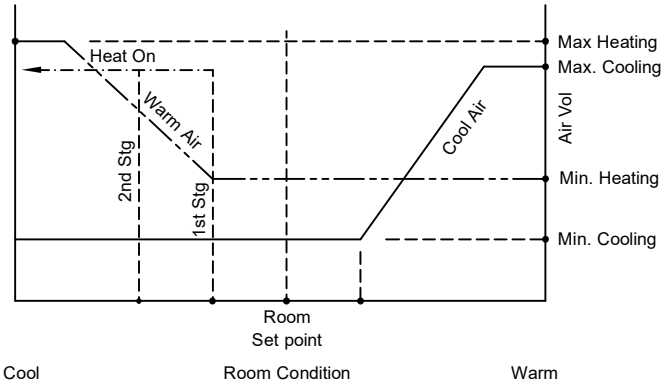


LEGEND

- FACTORY FLOW SENSOR TUBING
- FACTORY ELECTRICAL WIRING
- FIELD ELECTRICAL WIRING

Calibration note: Suitable min and max heating flows must be selected in order to maintain flow through energized electric coils of at least 200 fpm and at least 70 cfm/kW throughout the entire operating range.

CONTROL GRAPH



Sequence of Operation (PIC-SD) -- Heat/cool changeover OR Cooling with up to 2 Stages of Binary Reheat - Pressure Independent

On power up the damper will calibrate closed for 2 minutes.

If no SAT sensor is present, the controller assumes Cool supply air at all times

Cool supply air: On an increase in space temperature the controller regulates the actuator to open the VAV damper and increase the flow of cool air. On an increase of space temperature greater than the cooling proportional band, the airflow is maintained at its pre-selected maximum setting.

On a decrease in space temperature the controller regulates the actuator to close the VAV damper and reduce the flow of cool air. If the space temperature decreases to less than the cooling proportional band, the airflow is maintained at the pre-selected minimum setting.

Warm supply air: On a decrease in space temperature the controller regulates the actuator to open the VAV damper and increase the flow of warm air. On a decrease of space temperature greater than the heating proportional band, the airflow is maintained at its pre-selected maximum setting.

On an increase in space temperature the controller regulates the actuator to close the VAV damper and reduce the flow of warm air. If the space temperature increases above the heating proportional band, the airflow is maintained at the pre-selected minimum setting.

Reheat Operation: On a decrease in space temperature into the heating proportional band, the 1st stage binary 24VAC reheat output will energize. Upon futher decreases, the 2nd stage of reheat will energize.

PROJECT:		
ENGINEER:		**SINGLE DUCT PIC-SD DDC** PRESSURE INDEPENDENT HEAT/COOL C/O OR COOLING ONLY WITH UP TO 2 STG BINARY HEAT FACTORY WIRED
CUSTOMER:	264667	
SUBMITTAL DATE: **SPEC. SYMBOL:**	2025/12/11	

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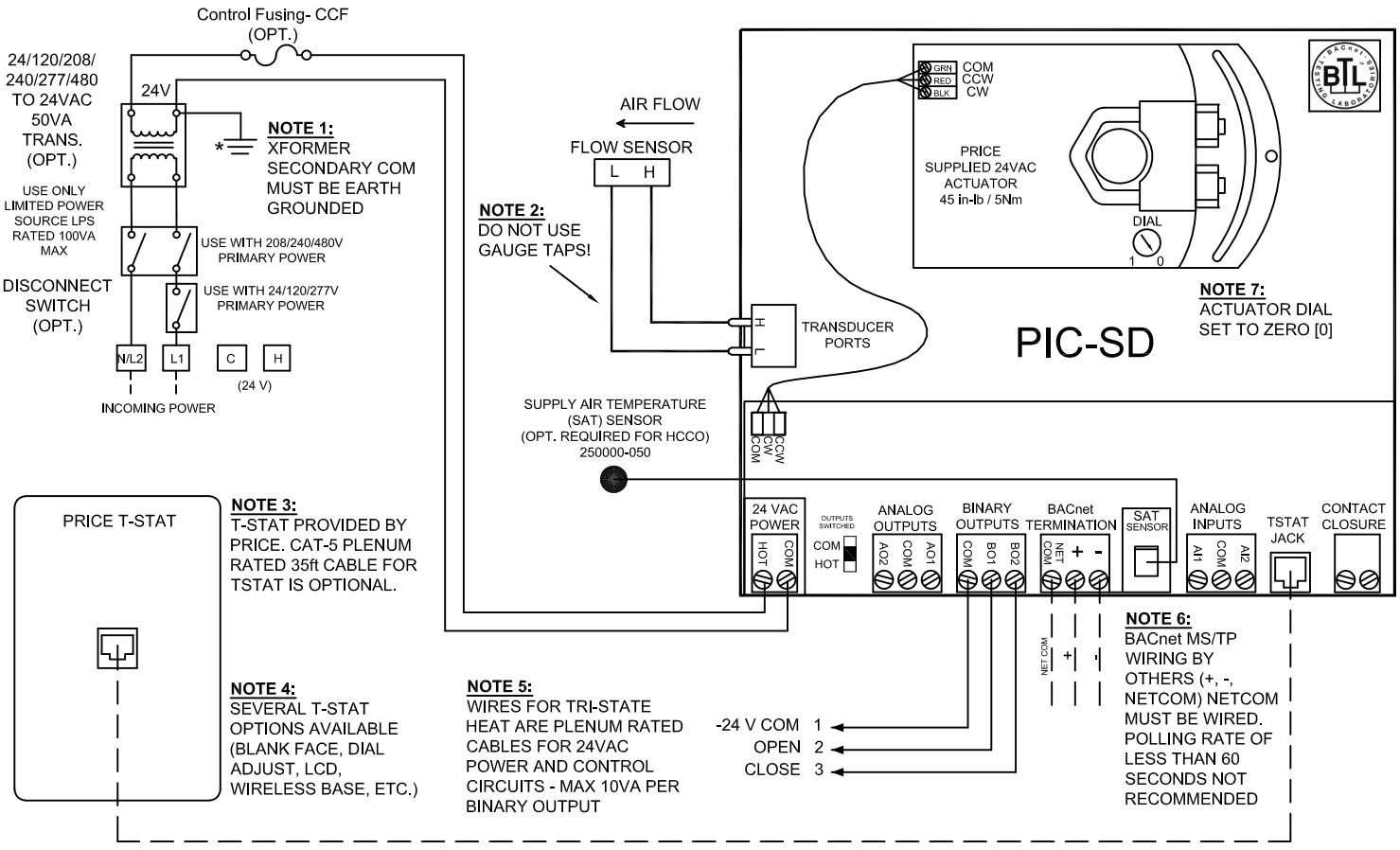
REV E

SINGLE DUCT DIGITAL CONTROLS

Control Sequence Number 1812

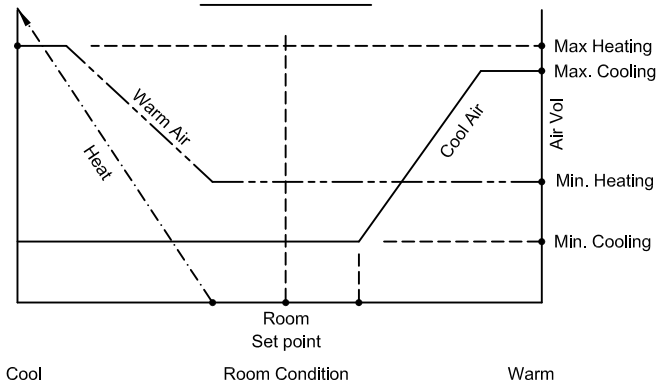


LEGEND

- FACTORY FLOW SENSOR TUBING
- FACTORY ELECTRICAL WIRING
- FIELD ELECTRICAL WIRING

Calibration note: Suitable min and max heating flows must be selected in order to maintain flow through energized electric coils of at least 200 fpm and at least 70 cfm/kW throughout the entire operating range.

CONTROL GRAPH



Sequence of Operation (PIC-SD) -- Heat/cool changeover OR Cooling with Tri-State Modulating HW Reheat - Pressure Independent

On power up the damper will calibrate closed for 2 minutes.

If no SAT sensor is present, the controller assumes Cool supply air at all times

Cool supply air: On an increase in space temperature the controller regulates the actuator to open the VAV damper and increase the flow of cool air. On an increase of space temperature greater than the cooling proportional band, the airflow is maintained at its pre-selected maximum setting.

On a decrease in space temperature the controller regulates the actuator to close the VAV damper and reduce the flow of cool air. If the space temperature decreases to less than the cooling proportional band, the airflow is maintained at the pre-selected minimum setting.

Warm supply air: On a decrease in space temperature the controller regulates the actuator to open the VAV damper and increase the flow of warm air. On a decrease of space temperature greater than the heating proportional band, the airflow is maintained at its pre-selected maximum setting.

On an increase in space temperature the controller regulates the actuator to close the VAV damper and reduce the flow of warm air. If the space temperature increases above the heating proportional band, the airflow is maintained at the pre-selected minimum setting.

Reheat Operation: On a decrease in space temperature, the heating valve is modulated to increase heat proportionally to the room demand.

PROJECT:			
ENGINEER:			**SINGLE DUCT PIC-SD DDC** PRESSURE INDEPENDENT HEAT/COOL C/O OR COOLING WITH TRI-STATE MODULATING REHEAT FACTORY WIRED
CUSTOMER:		264668	
SUBMITTAL DATE:	**SPEC. SYMBOL:**	2025/12/11	

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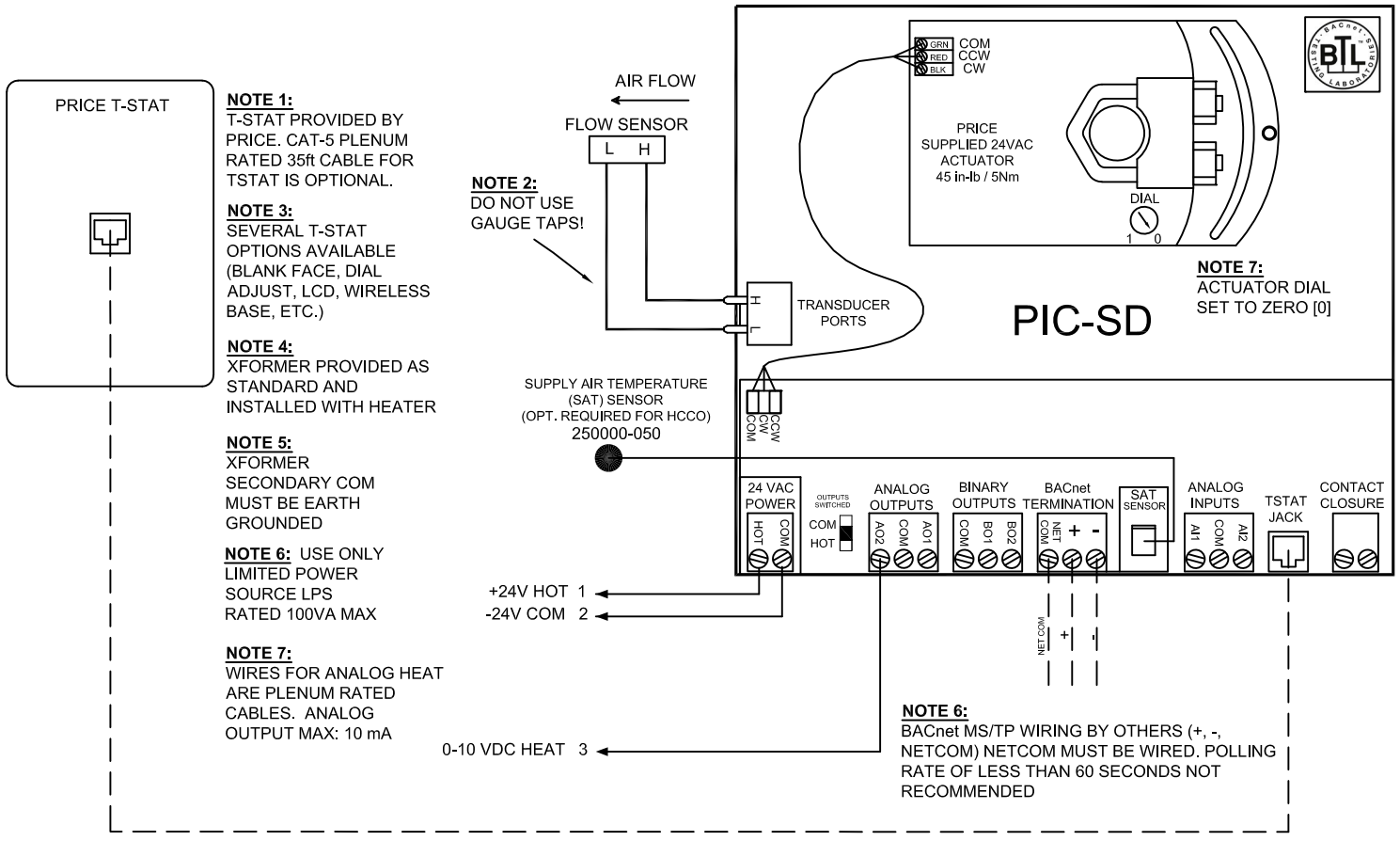
REV E

SINGLE DUCT DIGITAL CONTROLS

Control Sequence Number 1813



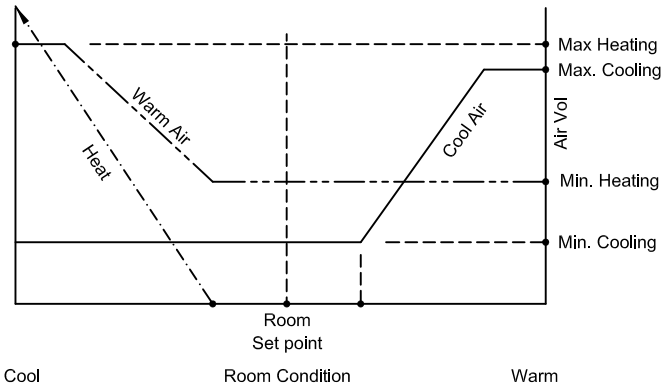
LEGEND

FACTORY FLOW SENSOR TUBING

FACTORY ELECTRICAL WIRING

FIELD ELECTRICAL WIRING

Calibration note: Suitable min and max heating flows must be selected in order to maintain flow through energized electric coils of at least 200 fpm and at least 70 cfm/kW throughout the entire operating range.



Sequence of Operation (PIC-SD) -- Heat/cool changeover OR Cooling with Analog Modulating Reheat - Pressure Independent

On power up the damper will calibrate closed for 2 minutes.

If no SAT sensor is present, the controller assumes Cool supply air at all times

Cool supply air: On an increase in space temperature the controller regulates the actuator to open the VAV damper and increase the flow of cool air. On an increase of space temperature greater than the cooling proportional band, the airflow is maintained at its pre-selected maximum setting.

On a decrease in space temperature the controller regulates the actuator to close the VAV damper and reduce the flow of cool air. If the space temperature decreases to less than the cooling proportional band, the airflow is maintained at the pre-selected minimum setting.

Warm supply air: On a decrease in space temperature the controller regulates the actuator to open the VAV damper and increase the flow of warm air. On a decrease of space temperature greater than the heating proportional band, the airflow is maintained at its pre-selected maximum setting.

On an increase in space temperature the controller regulates the actuator to close the VAV damper and reduce the flow of warm air. If the space temperature increases above the heating proportional band, the airflow is maintained at the pre-selected minimum setting.

Reheat Operation: On a decrease in space temperature, the controller modulates the 0-10VDC output to increase the heat proportionally to the room demand.

PROJECT:			
ENGINEER:			**SINGLE DUCT PIC-SD DDC** PRESSURE INDEPENDENT HEAT/COOL C/O OR COOLING WITH ANALOG ELECTRIC REHEAT FACTORY WIRED
CUSTOMER:		264669	
SUBMITTAL DATE:	**SPEC. SYMBOL:**	2025/12/11	

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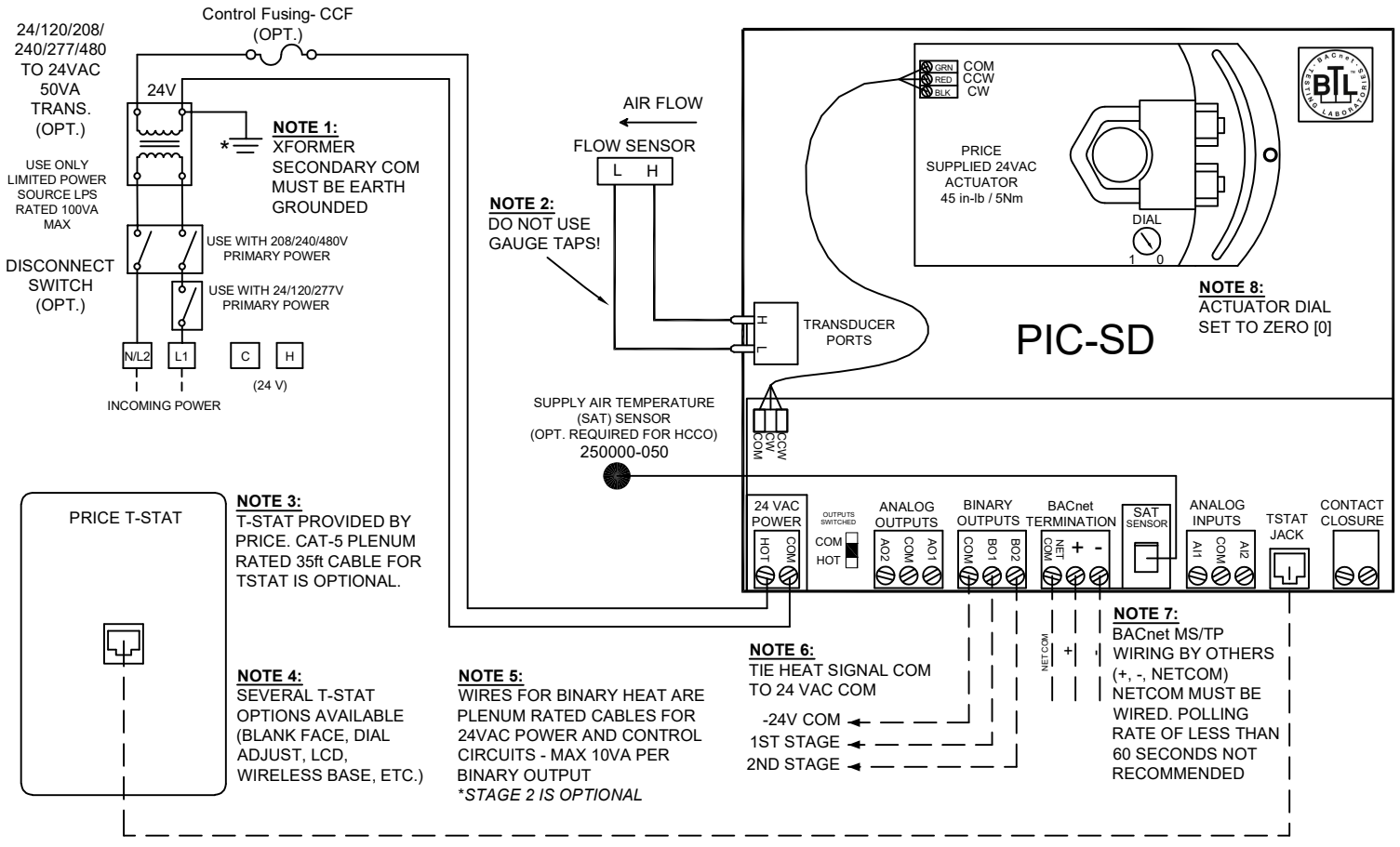
REV E

SINGLE DUCT DIGITAL CONTROLS

Control Sequence Number 1814

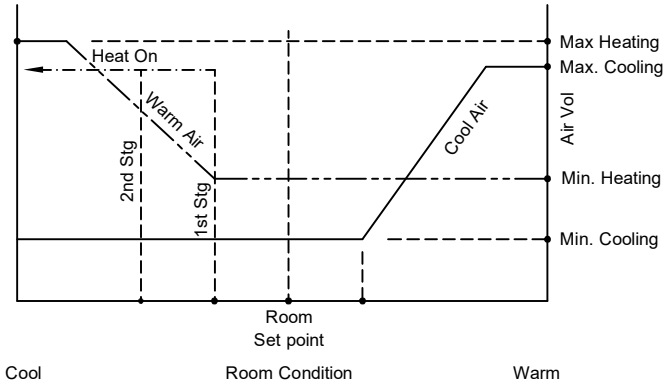


LEGEND

- FACTORY FLOW SENSOR TUBING
- FACTORY ELECTRICAL WIRING
- FIELD ELECTRICAL WIRING

Calibration note: Suitable min and max heating flows must be selected in order to maintain flow through energized electric coils of at least 200 fpm and at least 70 cfm/kW throughout the entire operating range.

CONTROL GRAPH



Sequence of Operation (PIC-SD) -- Heat/cool changeover OR Cooling with up to 2 Stages of Binary Reheat - Pressure Independent

On power up the damper will calibrate closed for 2 minutes.

If no SAT sensor is present, the controller assumes cool supply air at all times

Cool supply air: On an increase in space temperature the controller regulates the actuator to open the VAV damper and increase the flow of cool air. On an increase of space temperature greater than the cooling proportional band, the airflow is maintained at its pre-selected maximum setting.

On a decrease in space temperature the controller regulates the actuator to close the VAV damper and reduce the flow of cool air. If the space temperature decreases to less than the cooling proportional band, the airflow is maintained at the pre-selected minimum setting.

Warm supply air: On a decrease in space temperature the controller regulates the actuator to open the VAV damper and increase the flow of warm air. On a decrease of space temperature greater than the heating proportional band, the airflow is maintained at its pre-selected maximum setting.

On an increase in space temperature the controller regulates the actuator to close the VAV damper and reduce the flow of warm air. If the space temperature increases above the heating proportional band, the airflow is maintained at the pre-selected minimum setting.

Reheat Operation: On a decrease in space temperature into the heating proportional band, the 1st stage binary 24VAC reheat output will energize. Upon futher decreases, the 2nd stage of reheat will energize.

PROJECT:			
ENGINEER:			**SINGLE DUCT PIC-SD DDC** PRESSURE INDEPENDENT HEAT/COOL C/O OR COOLING WITH UP TO 2 STAGES OF REHEAT FIELD WIRED
CUSTOMER:		264670	
SUBMITTAL DATE:	**SPEC. SYMBOL:**	2025/12/11	

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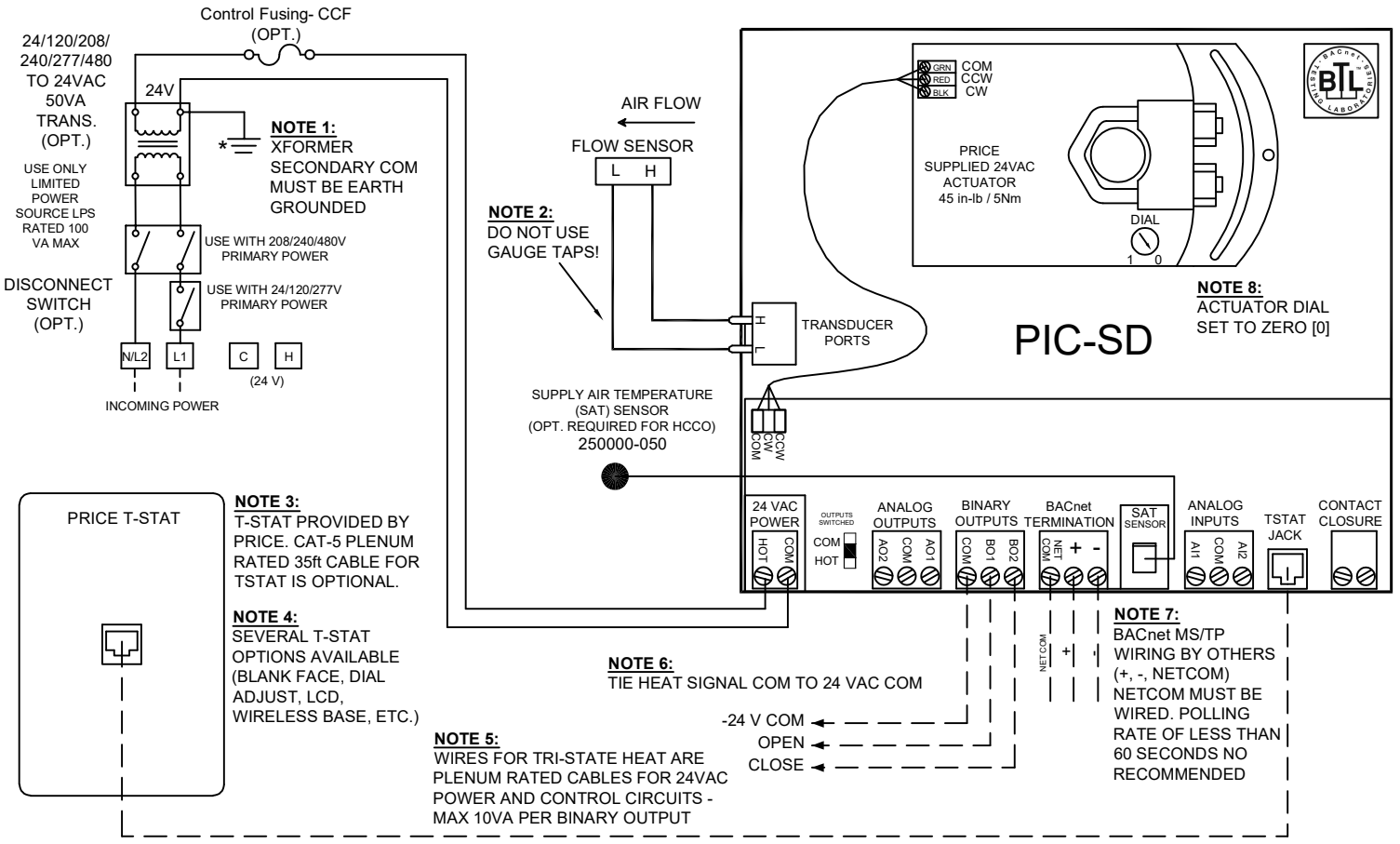
REV E

SINGLE DUCT DIGITAL CONTROLS

Control Sequence Number 1815

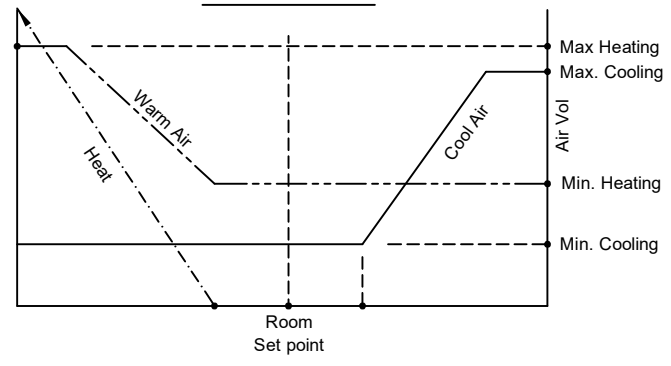


LEGEND

- FACTORY FLOW SENSOR TUBING
- FACTORY ELECTRICAL WIRING
- FIELD ELECTRICAL WIRING

Calibration note: Suitable min and max heating flows must be selected in order to maintain flow through energized electric coils of at least 200 fpm and at least 70 cfm/kW throughout the entire operating range.

CONTROL GRAPH



Sequence of Operation (PIC-SD) -- Heat/cool changeover OR Cooling with Tri-State Modulating HW Reheat - Pressure Independent

On power up the damper will calibrate closed for 2 minutes.

If no SAT sensor is present, the controller assumes Cool supply air at all times

Cool supply air: On an increase in space temperature the controller regulates the actuator to open the VAV damper and increase the flow of cool air. On an increase of space temperature greater than the cooling proportional band, the airflow is maintained at its pre-selected maximum setting.

On a decrease in space temperature the controller regulates the actuator to close the VAV damper and reduce the flow of cool air. If the space temperature decreases to less than the cooling proportional band, the airflow is maintained at the pre-selected minimum setting.

Warm supply air: On a decrease in space temperature the controller regulates the actuator to open the VAV damper and increase the flow of warm air. On a decrease of space temperature greater than the heating proportional band, the airflow is maintained at its pre-selected maximum setting.

On an increase in space temperature the controller regulates the actuator to close the VAV damper and reduce the flow of warm air. If the space temperature increases above the heating proportional band, the airflow is maintained at the pre-selected minimum setting.

Reheat Operation: On a decrease in space temperature, the heating valve is modulated to increase heat proportionally to the room demand.

PROJECT:			
ENGINEER:			**SINGLE DUCT PIC-SD DDC** PRESSURE INDEPENDENT HEAT/COOL C/O OR COOLING WITH TRI-STATE MODULATING REHEAT FIELD WIRED
CUSTOMER:		264671	
SUBMITTAL DATE:	**SPEC. SYMBOL:**	2025/12/11	

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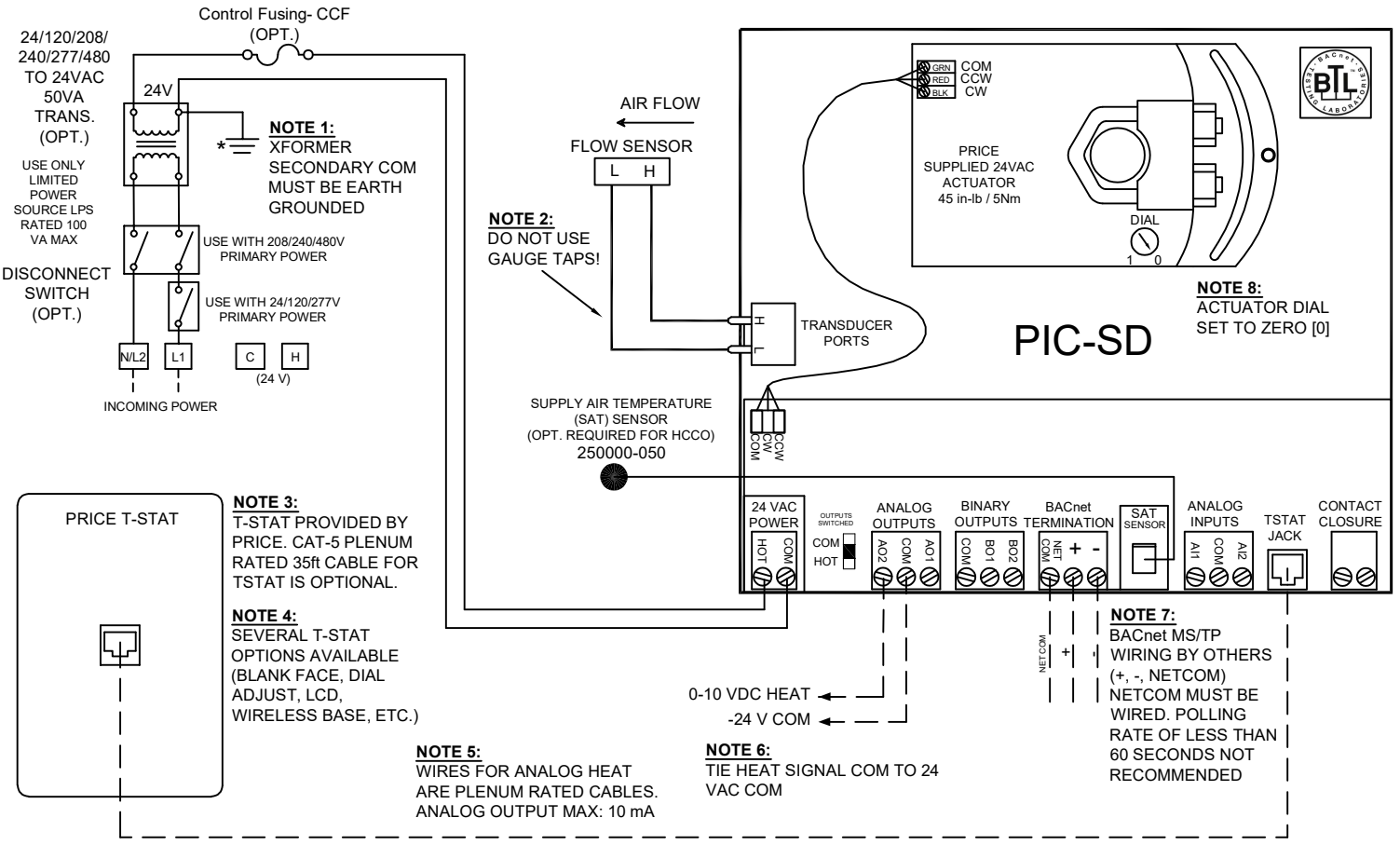
REV E

SINGLE DUCT DIGITAL CONTROLS

Control Sequence Number 1816

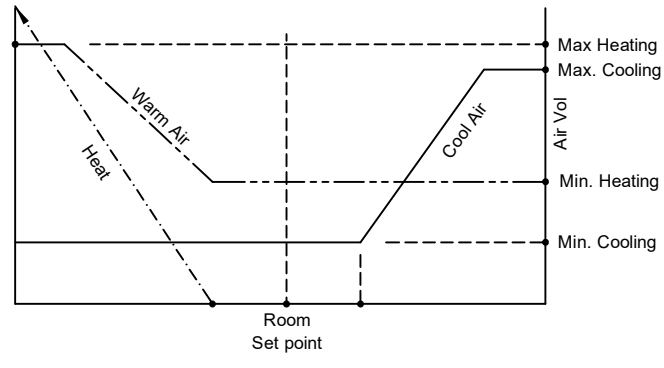


LEGEND

- FACTORY FLOW SENSOR TUBING
- FACTORY ELECTRICAL WIRING
- FIELD ELECTRICAL WIRING

Calibration note: Suitable min and max heating flows must be selected in order to maintain flow through energized electric coils of at least 200 fpm and at least 70 cfm/kW throughout the entire operating range.

CONTROL GRAPH



Sequence of Operation (PIC-SD) -- Heat/cool changeover OR Cooling with Analog Modulating Reheat - Pressure Independent

On power up the damper will calibrate closed for 2 minutes.

If no SAT sensor is present, the controller assumes Cool supply air at all times

Cool supply air: On an increase in space temperature the controller regulates the actuator to open the VAV damper and increase the flow of cool air. On an increase of space temperature greater than the cooling proportional band, the airflow is maintained at its pre-selected maximum setting.

On a decrease in space temperature the controller regulates the actuator to close the VAV damper and reduce the flow of cool air. If the space temperature decreases to less than the cooling proportional band, the airflow is maintained at the pre-selected minimum setting.

Warm supply air: On a decrease in space temperature the controller regulates the actuator to open the VAV damper and increase the flow of warm air. On a decrease of space temperature greater than the heating proportional band, the airflow is maintained at its pre-selected maximum setting.

On an increase in space temperature the controller regulates the actuator to close the VAV damper and reduce the flow of warm air. If the space temperature increases above the heating proportional band, the airflow is maintained at the pre-selected minimum setting.

Reheat Operation: On a decrease in space temperature, the controller modulates the 0-10VDC output to increase the heat proportionally to the room demand.

PROJECT:			
ENGINEER:		BC MB	**SINGLE DUCT PIC-SD DDC** PRESSURE INDEPENDENT HEAT/COOL C/O OR COOLING WITH ANALOG ELECTRIC REHEAT FIELD WIRED
CUSTOMER:		264672	
SUBMITTAL DATE:	**SPEC. SYMBOL:**	2025/12/11	

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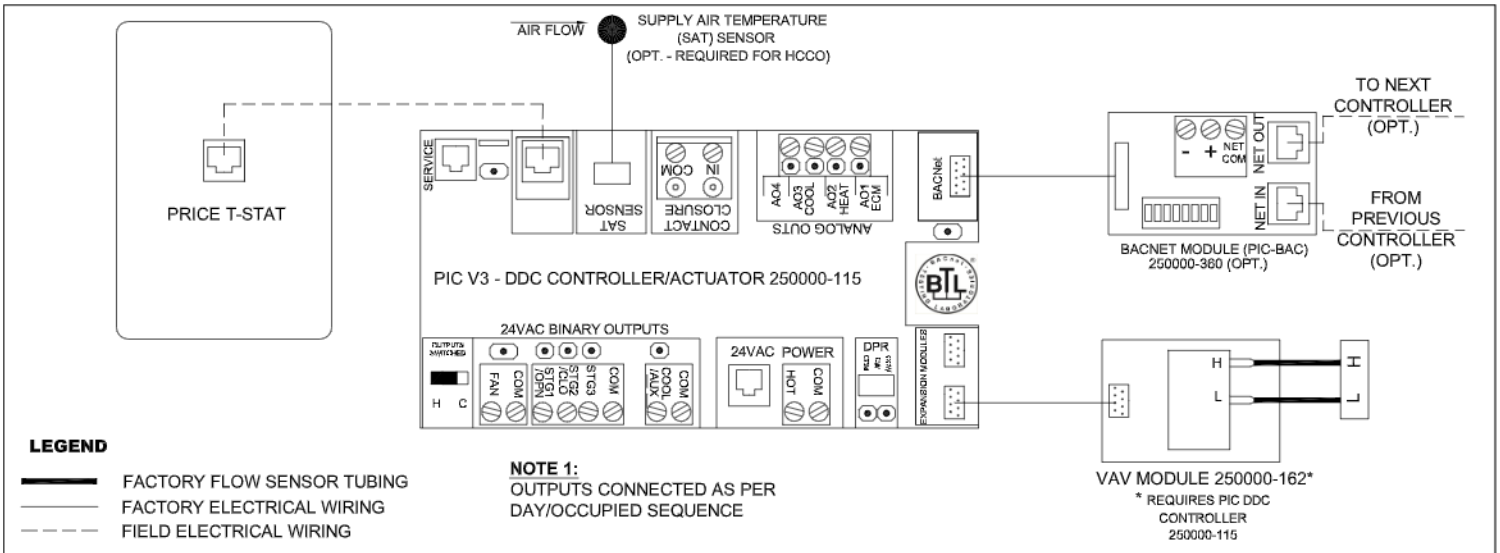
REV E

SINGLE DUCT TERMINAL UNIT NIGHT SETBACK SEQUENCE

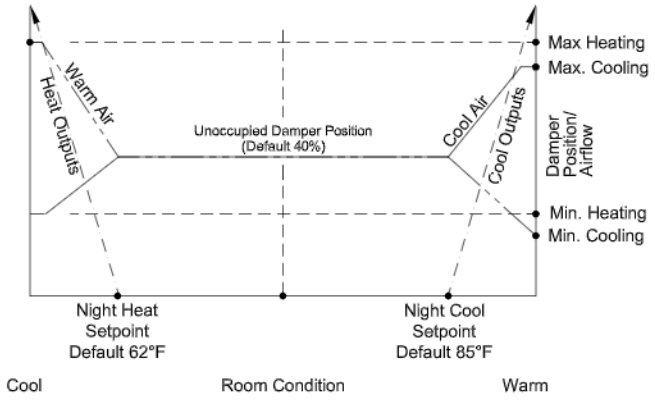
Control Sequence Number 9999



Entering and Exiting Night Setback: There are several methods for the PIC to enter and exit night setback (unoccupied mode). All of the following methods can be enabled or disabled in software or from the T-Stat menu.

1. **Airflow Failure:** (Disabled by default) If using a Pressure Independant day sequence (with the PIC-VAV module), the controller will enter night setback when minimal airflow is sensed in the duct. The controller does this based on Day Flow Trip and Night Flow Trip (adjustable).
   Day Flow Trip is enabled when the controller sees more than 1/2 of its minimum airflow - i.e. min airflow = 132 cfm, Day Flow Trip = 66 cfm.
   Night Flow Trip is enabled when the controller sees less than 1/2 of its day flow trip value - i.e. 33 cfm
2. **Motion Sensor:** (Disabled by default) If a motion sensor T-Stat is used, the controller can enter night setback if no motion has been detetected in the space for a specified period of time (default: 4 hours).
3. **Contact Closure:** (Disabled by default) Connecting the two contact closure inputs together using a dry contact will cause the controller to enter night setback. The controller will exit night setback once the contacts are released.
4. **T-Stat Button:** The T-Stat button allows the user to exit night setback. Pressing any button on the T-Stat will cause the controller to exit night setback for the override time period. (default: 4 hours). Occupancy override by T-Stat button is always enabled and cannot be disabled.

CONTROL GRAPH - SDV8



Sequence of Operation -- SINGLE DUCT TERMINAL UNIT - PIC CONTROLLER - NIGHT SETBACK

During night setback, the controller will respond to its night heat setpoint and its night cool setpoint.
While the room temperature is between the two night setpoints, by default the controller will maintain the damper position at 40% open. All outputs (Fan, Heat, etc.) will go to their OFF or IDLE states.

Room temperature below Night Heat Setpoint:
Reheat Operation: On a decrease in space temperature into the heating proportional band, the reheat outputs (if used) are energized proportionally.
Cool supply air: On a decrease in space temperature the controller regulates the actuator to close the VAV damper and reduce the flow of cool air. The airflow is maintained at the pre-selected minimum setting.
Warm supply air: On a decrease in space temperature the controller regulates the actuator to open the VAV damper and increase the flow of warm air. On a decrease of space temperature greater than the heating proportional band, the airflow is maintained at its pre-selected maximum setting.

Room temperature above Night Cool Setpoint:
Cooling Output Operation: On an increase in space temperature into the cooling proportional band, the cooling outputs (if used) are energized proportionally.
Cool supply air: On an increase in space temperature the controller regulates the actuator to open the VAV damper and increase the flow of cool air. On an increase of space temperature greater than the cooling proportional band, the airflow is maintained at its pre-selected maximum setting.
Warm supply air: On an increase in space temperature the controller regulates the actuator to close the VAV damper and reduce the flow of warm air. The airflow is maintained at the pre-selected minimum setting.

PROJECT:		
ENGINEER:		SINGLE DUCT TERMINAL UNIT NIGHT SETBACK SEQUENCE PIC - DDC CONTROLLER SDV8
CUSTOMER:	249529	
SUBMITTAL DATE:	**SPEC. SYMBOL:**	2015/01/29

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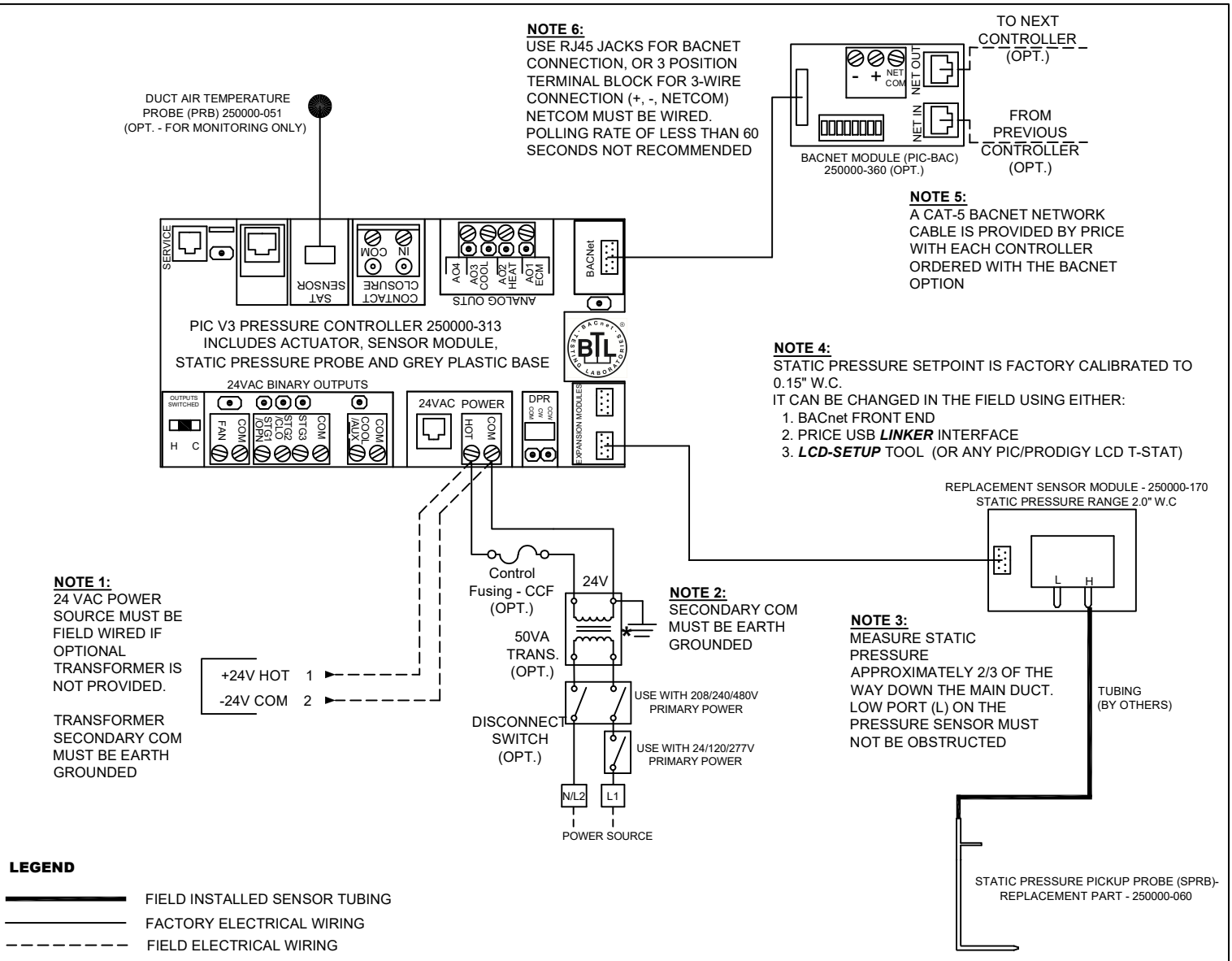
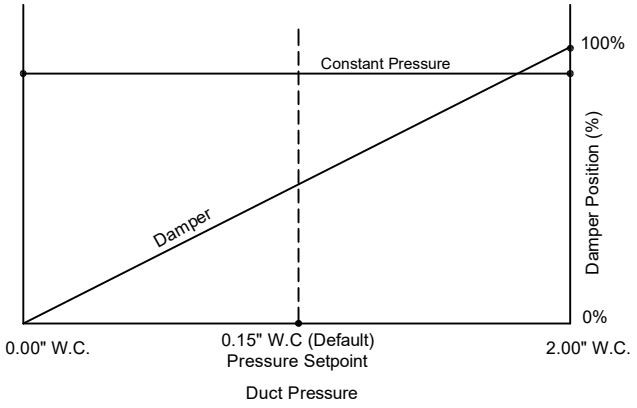
PCV & PIM DIGITAL CONTROLS

Control Sequence Number 1550



CONTROL GRAPH



Sequence of Operation -- Constant Pressure, Bypass.
On startup, the controller will calibrate to the fully-open position for 2 minutes.

On an increase in duct static pressure the controller/actuator will modulate the VAV damper open to increase the amount of air bypassed.
On a decrease in duct static pressure the controller/actuator will modulate the VAV damper closed to reduce the amount of air bypassed.
Duct static pressure is held constant.

Upon detection of air handler shutdown (Zero duct pressure with bypass damper fully closed), the controller/actuator will place the damper at the pre-selected setback position (default: 50% open)

PROJECT:			
ENGINEER:		SF mm	**PCV / PIM** **PIC PRESSURE CONTROLLER** PRICE INTELLIGENT CONTROLLER CONSTANT PRESSURE BYPASS DIGITAL S.P. ADJUST
CUSTOMER:		269823	
SUBMITTAL DATE:	**SPEC. SYMBOL:**	23/12/2025	

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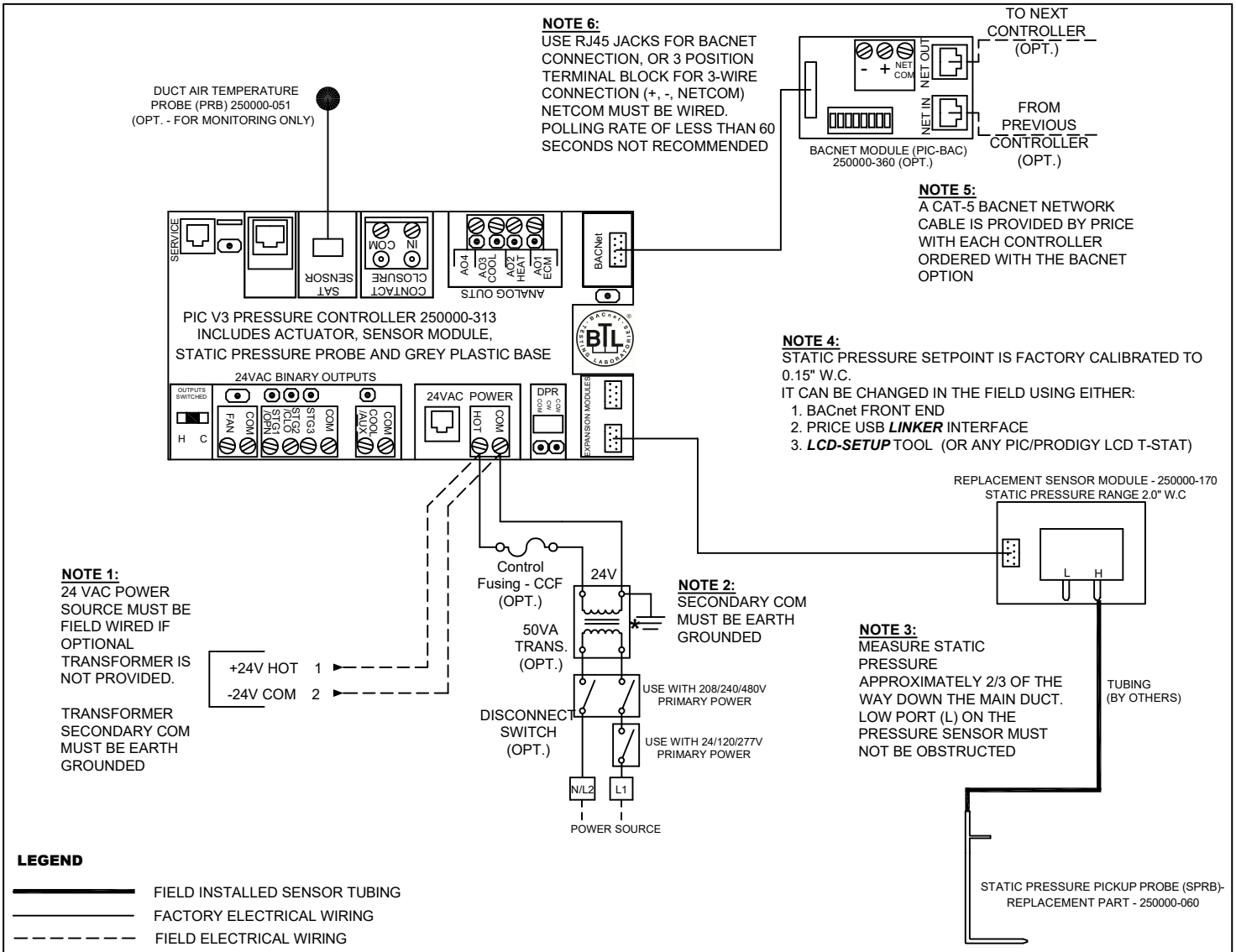
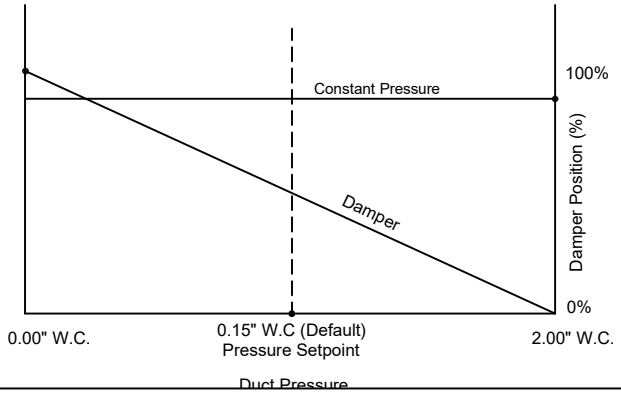
REV C

PCV & PIM DIGITAL CONTROLS

Control Sequence Number 1551



CONTROL GRAPH



Sequence of Operation -- Constant Pressure, Downstream.
On startup, the controller will calibrate to the fully-closed position for 2 minutes.

On an increase in duct static pressure the controller/actuator will modulate the VAV damper closed to decrease the amount of air delivered downstream of the box.
On a decrease in duct static pressure the controller/actuator will modulate the VAV damper open to increase the amount of air delivered downstream of the box.
Duct static pressure is held constant.

Upon detection of air handler shutdown (Zero duct pressure with VAV damper fully open), the controller/actuator will place the damper at the pre-selected setback position (default: 50% open)

PROJECT:			
ENGINEER:			**PCV / PIM** **PIC PRESSURE CONTROLLER** PRICE INTELLIGENT CONTROLLER CONSTANT PRESSURE DOWNSTREAM DIGITAL S.P. ADJUST
CUSTOMER:		269824	
SUBMITTAL DATE:	**SPEC. SYMBOL:**	23/12/2025	

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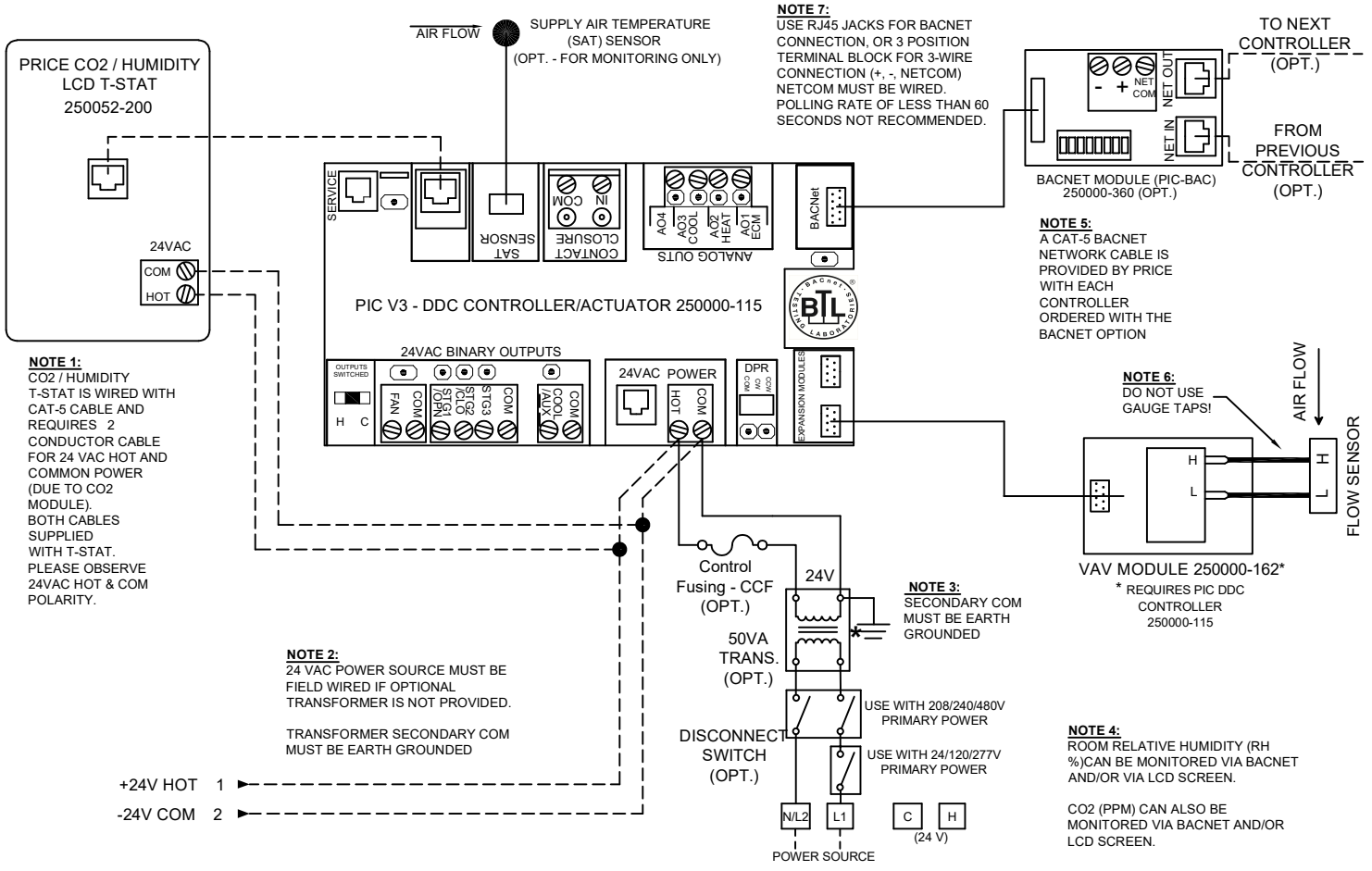
REV C

SINGLE DUCT DIGITAL CONTROLS

Control Sequence Number 2820



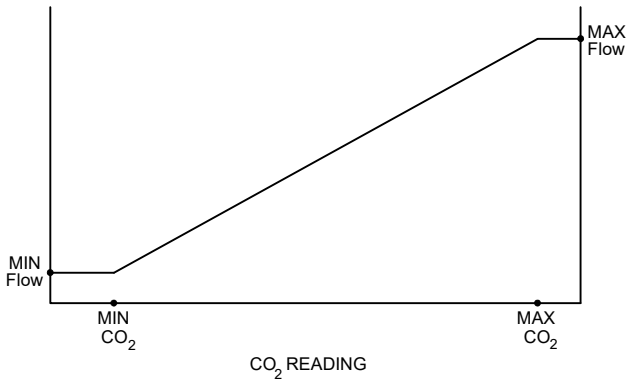
LEGEND

FACTORY FLOW SENSOR TUBING

FACTORY ELECTRICAL WIRING

FIELD ELECTRICAL WIRING

CONTROL GRAPH



Sequence of Operation -- CO_2 Tracking, Variable Volume, Pressure Independent

On power up the damper will calibrate closed for 2 minutes.

The PIC Controller shall maintain an airflow through the VAV terminal that is directly proportional to the CO_2 level in the occupied space. CO_2 is measured at the Price CO_2 thermostat.

As the CO_2 reading increases from the minimum level to the maximum level (adjustable), the airflow is increased proportionally between the adjustible minimum and maximum airflow setpoints.

As the CO_2 reading decreases from the maximum level to the minimum level (adjustable), the airflow is decreased proportionally between the adjustible minimum and maximum airflow setpoints.

PROJECT:			
ENGINEER:			**SINGLE DUCT PIC DDC** PRESSURE INDEPENDENT VARIABLE VOLUME CO_2 AIRFLOW TRACKING
CUSTOMER:		259561	
SUBMITTAL DATE:	**SPEC. SYMBOL:**	2025/10/06	

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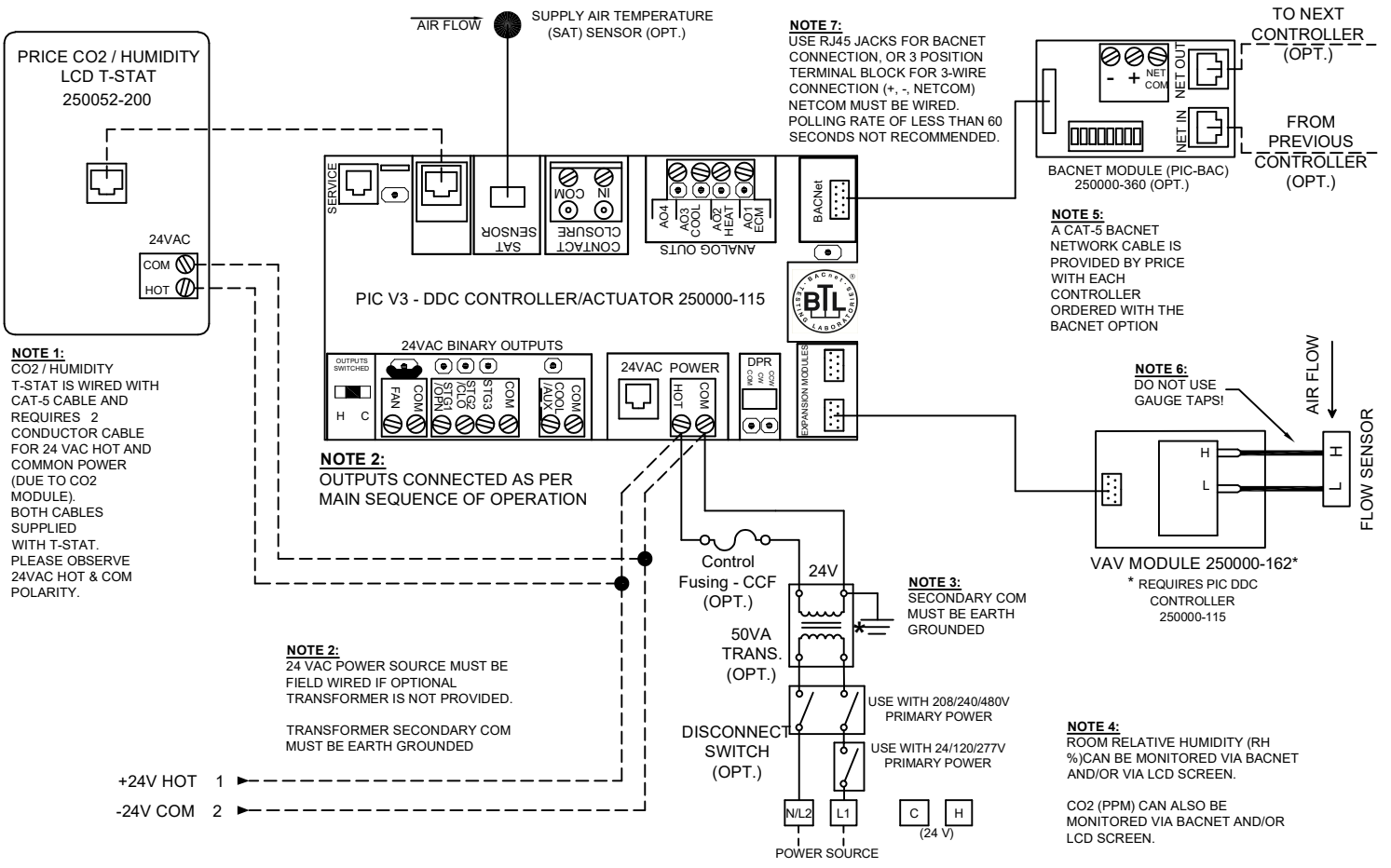
REV D

TERMINAL CONTROLS
PRICE INTELLIGENT CONTROLLER

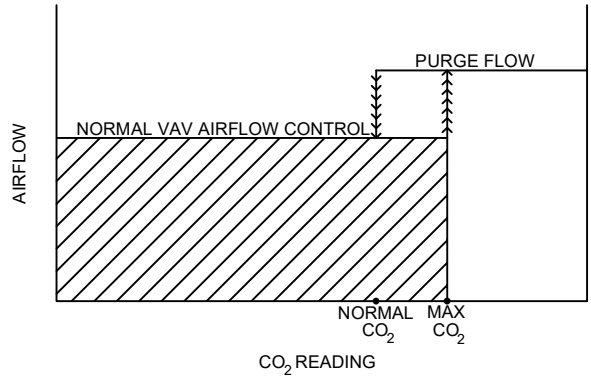
Control Sequence Number 9998



LEGEND

- FACTORY FLOW SENSOR TUBING
- FACTORY ELECTRICAL WIRING
- FIELD ELECTRICAL WIRING

CONTROL GRAPH



Sequence of Operation -- CO_2 Purge, Pressure Independent

*Secondary control sequence. Adds functionality to standard terminal unit control sequences (280x, 680x, 880x) with the CO_2 /humidity T-stat Part #250052-200.

NORMAL OPERATION

While the CO_2 reading in the occupied space is below the adjustable maximum level, the terminal unit is controlled as per the selected standard control sequence (280x, 680x, 880x).

CO2 PURGE

If the CO_2 reading in the occupied space rises above the adjustable maximum level, the controller will regulate the VAV damper to increase the airflow into the space to the adjustable "CO_2 Purge" airflow setting.

Once the CO_2 reading drops to the normal CO_2 level, the controller will resume normal operation.

REHEAT OPERATION

The controller will energize reheat (as directed by the standard control sequence) in both Normal and CO_2 Purge operating modes.

PROJECT:			
ENGINEER:		BC MB	**TERMINAL CONTROLS PIC DDC** PRESSURE INDEPENDENT CO_2 PURGE ADDS FUNCTIONALITY TO STD TERMINAL CONTROL SEQUENCES
CUSTOMER:		259562	
SUBMITTAL DATE:	**SPEC. SYMBOL:**	2025/10/06	

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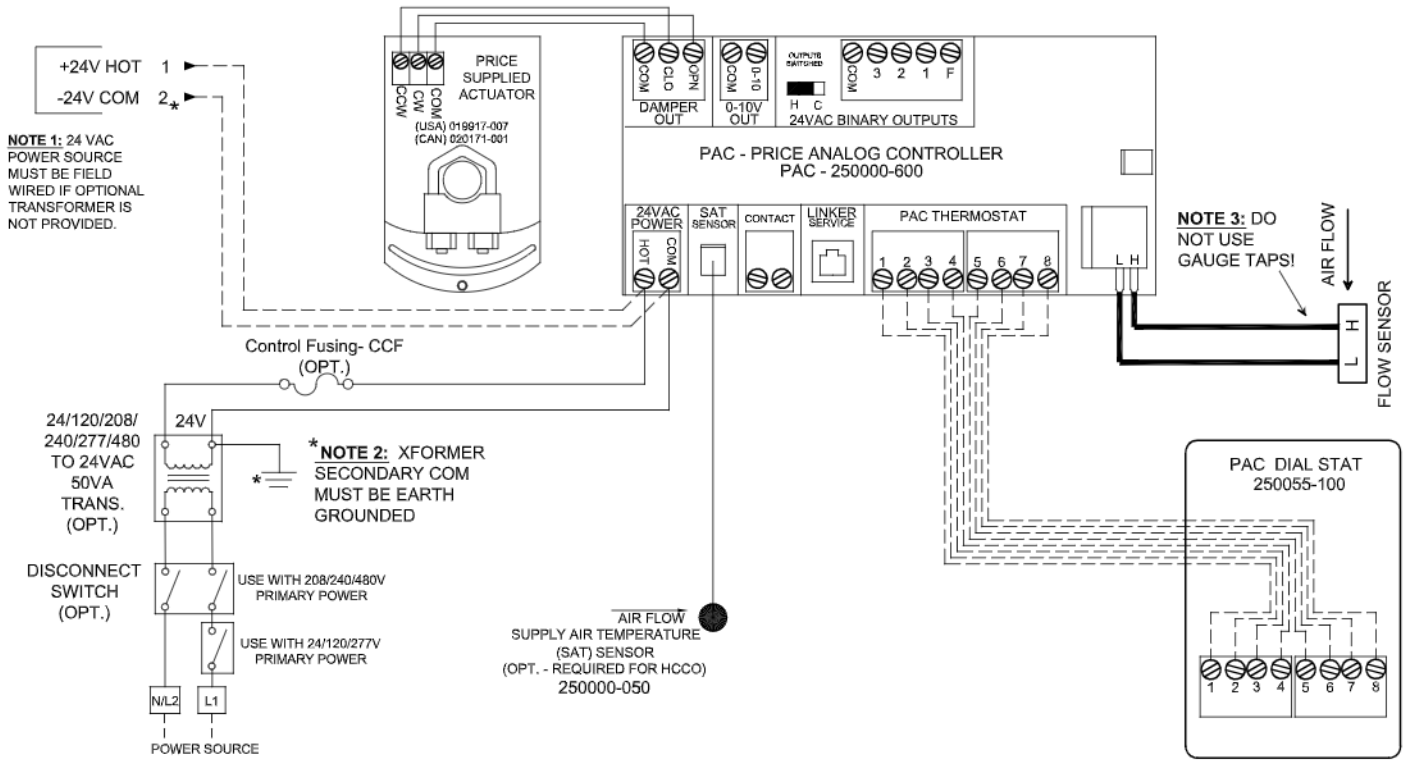
REV D

SINGLE DUCT DIGITAL CONTROLS

Control Sequence Number 1800



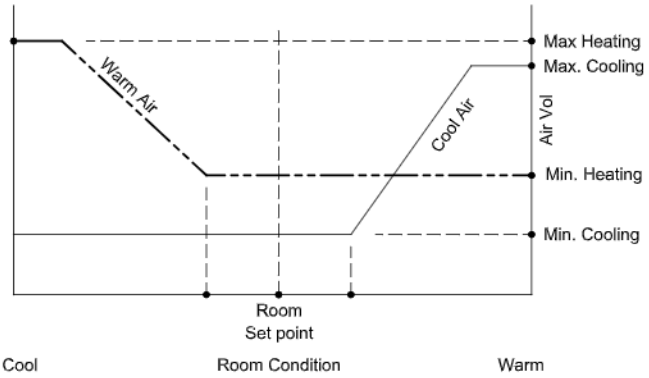
LEGEND

FACTORY FLOW SENSOR TUBING

FACTORY ELECTRICAL WIRING

FIELD ELECTRICAL WIRING

CONTROL GRAPH



Sequence of Operation -- Heat/cool changeover OR cooling only Pressure Independent

On power up the damper will calibrate closed for 2 minutes.

If no SAT sensor is present, the controller assumes Cool supply air at all times

Cool supply air: On an increase in space temperature the controller regulates the actuator to open the VAV damper and increase the flow of cool air. On an increase of space temperature greater than the cooling proportional band, the airflow is maintained at its pre-selected maximum setting.

On a decrease in space temperature the controller regulates the actuator to close the VAV damper and reduce the flow of cool air. If the space temperature decreases to less than the cooling proportional band, the airflow is maintained at the pre-selected minimum setting.

Warm supply air: On a decrease in space temperature the controller regulates the actuator to open the VAV damper and increase the flow of warm air. On a decrease of space temperature greater than the heating proportional band, the airflow is maintained at its pre-selected maximum setting.

On an increase in space temperature the controller regulates the actuator to close the VAV damper and reduce the flow of warm air. If the space temperature increases above the heating proportional band, the airflow is maintained at the pre-selected minimum setting.

PROJECT:			
ENGINEER:			**SINGLE DUCT PAC** PRESSURE INDEPENDENT HEAT/COOL CHANGEOVER OR COOLING ONLY NO LOCAL REHEAT CONTROL
CUSTOMER:		254832	
SUBMITTAL DATE:	**SPEC. SYMBOL:**	2012/11/13	

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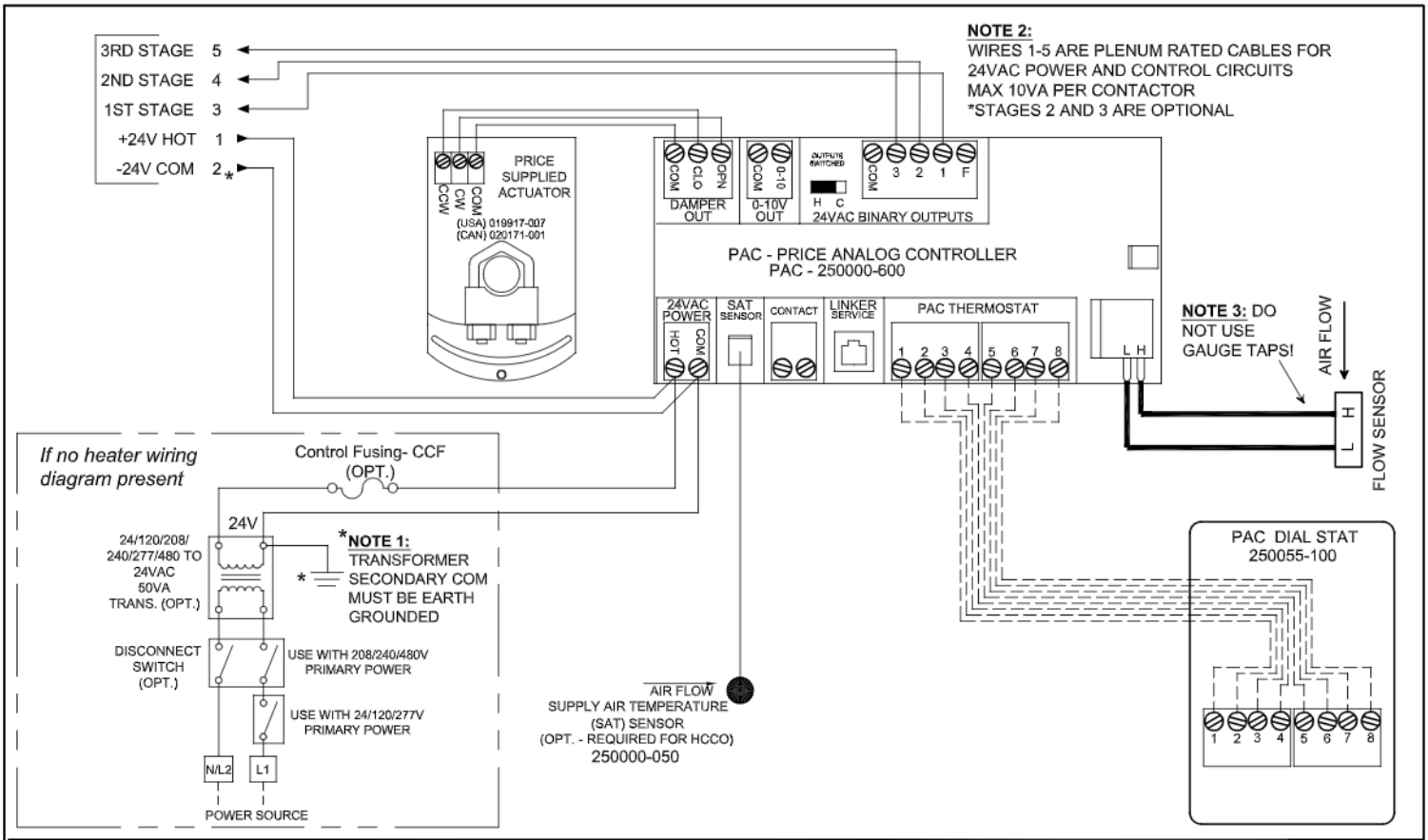
REV B

SINGLE DUCT DIGITAL CONTROLS

Control Sequence Number 1801



Calibration note: Suitable min and max heating flows must be selected in order to maintain flow through energized electric coils of at least 200 fpm and at least 70 cfm/kW throughout the entire operating range.

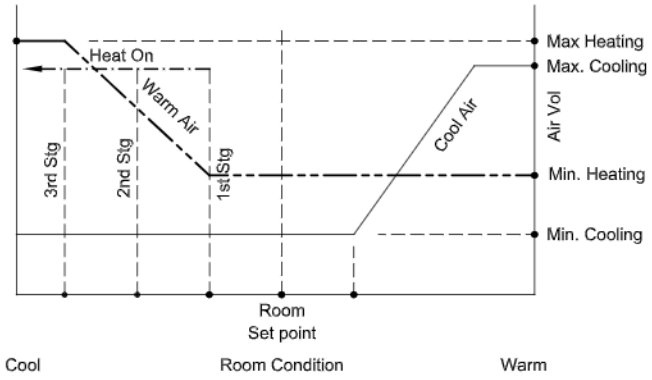
LEGEND

FACTORY FLOW SENSOR TUBING

FACTORY ELECTRICAL WIRING

FIELD ELECTRICAL WIRING

CONTROL GRAPH



Sequence of Operation -- Heat/cool changeover OR cooling
With up to 3 stage binary reheat - Pressure Independent

On power up the damper will calibrate closed for 2 minutes.

If no SAT sensor is present, the controller assumes Cool supply air at all times

Cool supply air: On an increase in space temperature the controller regulates the actuator to open the VAV damper and increase the flow of cool air. On an increase of space temperature greater than the cooling proportional band, the airflow is maintained at its pre-selected maximum setting.

On a decrease in space temperature the controller regulates the actuator to close the VAV damper and reduce the flow of cool air. If the space temperature decreases to less than the cooling proportional band, the airflow is maintained at the pre-selected minimum setting.

Warm supply air: On a decrease in space temperature the controller regulates the actuator to open the VAV damper and increase the flow of warm air. On a decrease of space temperature greater than the heating proportional band, the airflow is maintained at its pre-selected maximum setting.

On an increase in space temperature the controller regulates the actuator to close the VAV damper and reduce the flow of warm air. If the space temperature increases above the heating proportional band, the airflow is maintained at the pre-selected minimum setting.

Reheat Operation: On a decrease in space temperature into the heating proportional band, the 1st stage binary 24VAC reheat output will energize. Upon futher decreases, the 2nd then 3rd stages of reheat (if used) will energize.

PROJECT:			
ENGINEER:			**SINGLE DUCT PAC** PRESSURE INDEPENDENT HEAT/COOL C/O OR COOLING WITH UP TO 3 STG BINARY REHEAT
CUSTOMER:		254833	
SUBMITTAL DATE:	**SPEC. SYMBOL:**	2012/11/13	

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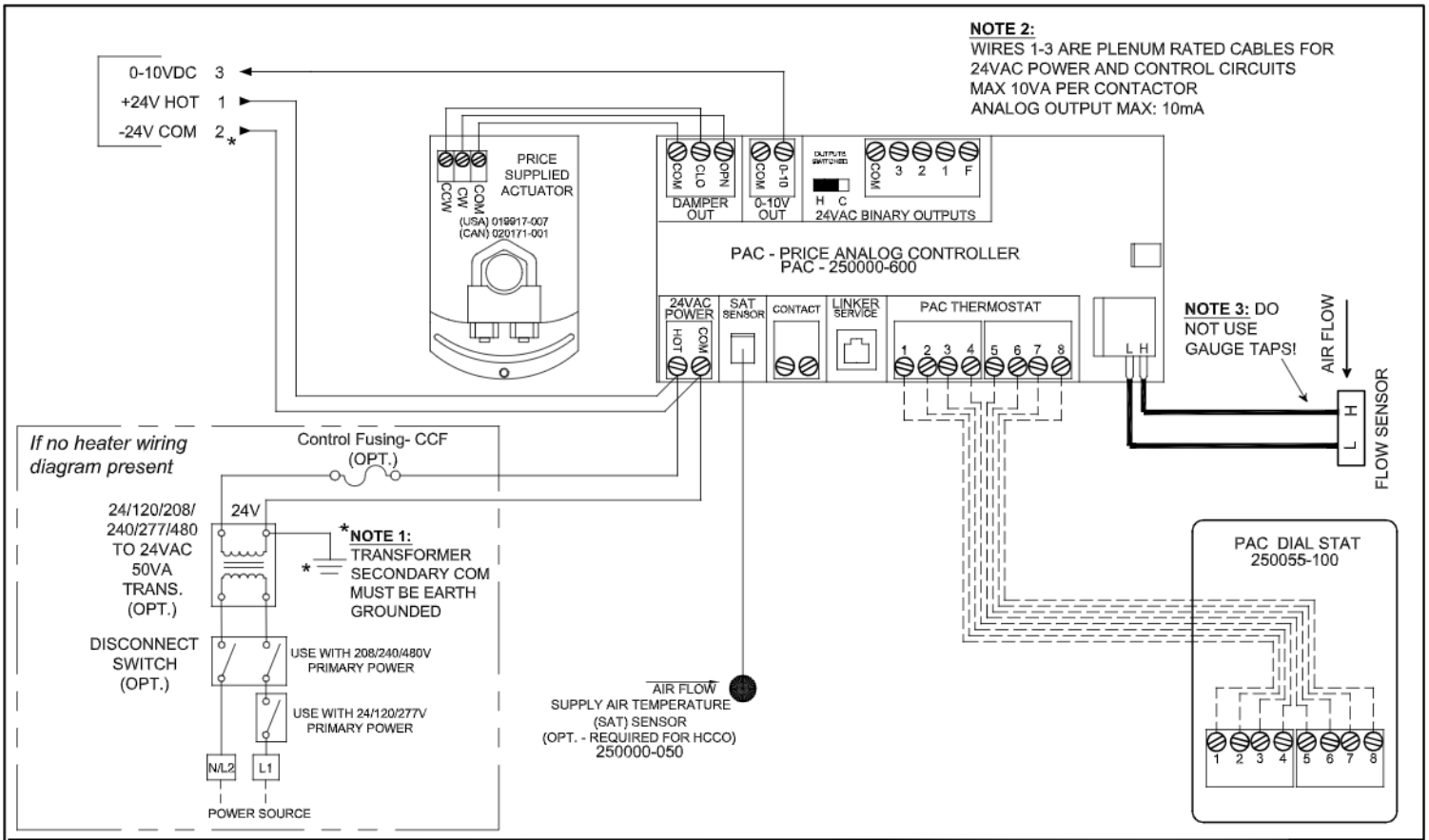
REV C

SINGLE DUCT DIGITAL CONTROLS

Control Sequence Number 1802

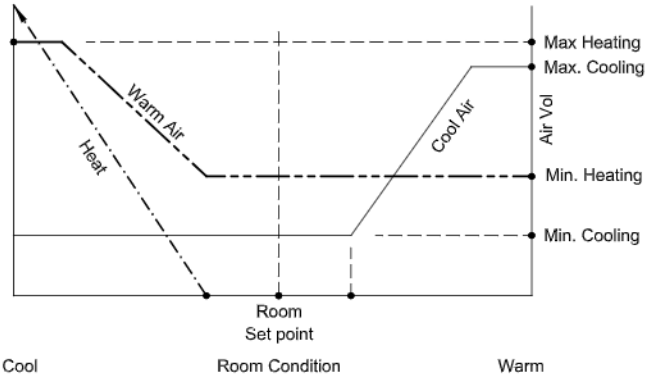


Calibration note: Suitable min and max heating flows must be selected in order to maintain flow through energized electric coils of at least 200 fpm and at least 70 cfm/kW throughout the entire operating range.

LEGEND

- FACTORY FLOW SENSOR TUBING
- FACTORY ELECTRICAL WIRING
- FIELD ELECTRICAL WIRING

CONTROL GRAPH



Sequence of Operation -- Heat/cool changeover OR cooling With Analog modulating reheat - Pressure Independent

On power up the damper will calibrate closed for 2 minutes.
If no SAT sensor is present, the controller assumes Cool supply air at all times

Cool supply air: On an increase in space temperature the controller regulates the actuator to open the VAV damper and increase the flow of cool air. On an increase of space temperature greater than the cooling proportional band, the airflow is maintained at its pre-selected maximum setting.

On a decrease in space temperature the controller regulates the actuator to close the VAV damper and reduce the flow of cool air. If the space temperature decreases to less than the cooling proportional band, the airflow is maintained at the pre-selected minimum setting.

Warm supply air: On a decrease in space temperature the controller regulates the actuator to open the VAV damper and increase the flow of warm air. On a decrease of space temperature greater than the heating proportional band, the airflow is maintained at its pre-selected maximum setting.

On an increase in space temperature the controller regulates the actuator to close the VAV damper and reduce the flow of warm air. If the space temperature increases above the heating proportional band, the airflow is maintained at the pre-selected minimum setting.

Reheat Operation: On a decrease in space temperature, the controller modulates the 0-10VDC ouput to increase heat proportionally to the room demand.

PROJECT:			
ENGINEER:			**SINGLE DUCT PAC** PRESSURE INDEPENDENT HEAT/COOL C/O OR COOLING WITH ANALOG ELECTRIC HEAT
CUSTOMER:		254834	
SUBMITTAL DATE:	**SPEC. SYMBOL:**	2012/11/13	

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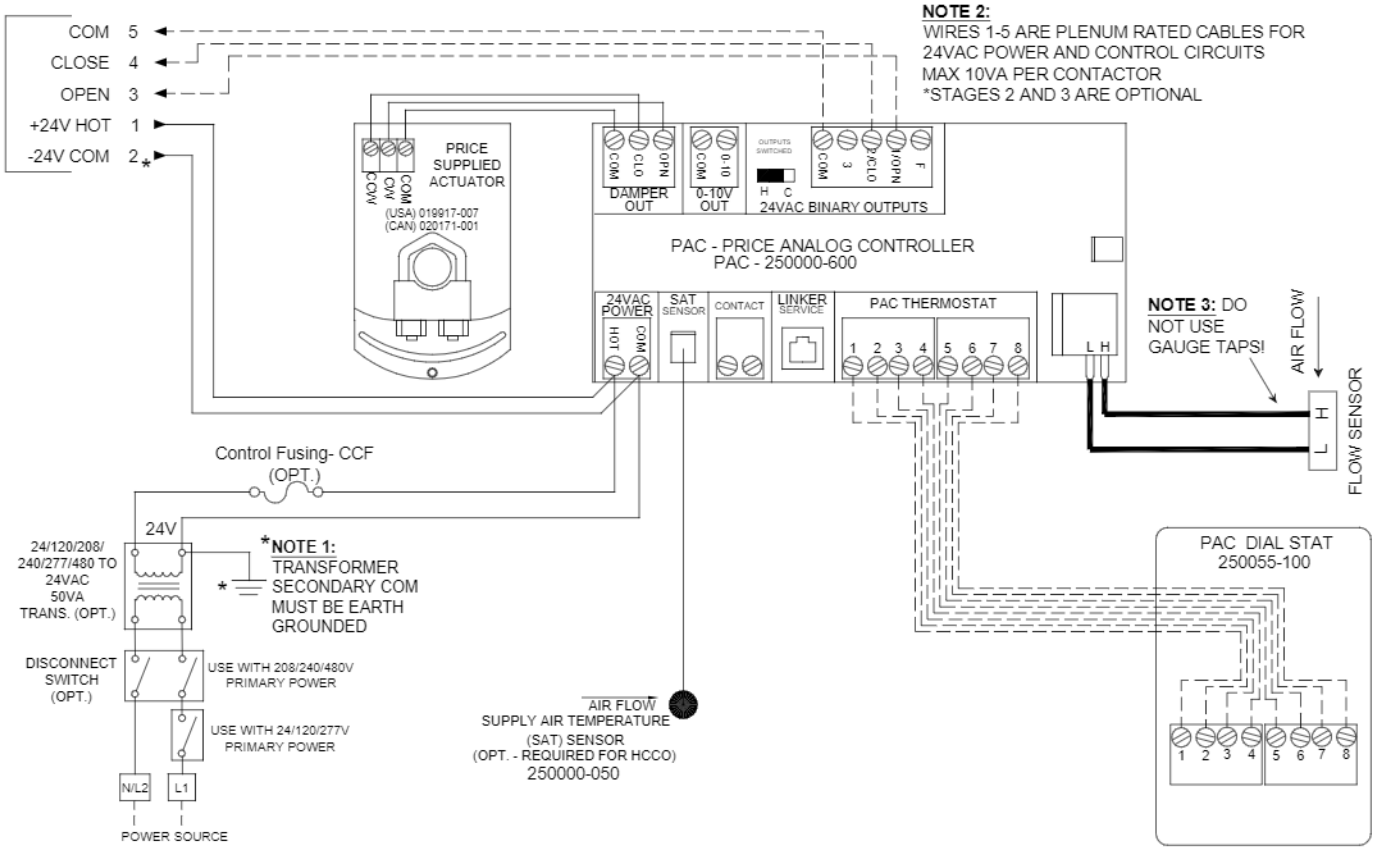
REV C

SINGLE DUCT DIGITAL CONTROLS

Control Sequence Number 1803



Calibration note: Suitable min and max heating flows must be selected in order to maintain flow through energized electric coils of at least 200 fpm and at least 70 cfm/kW throughout the entire operating range.

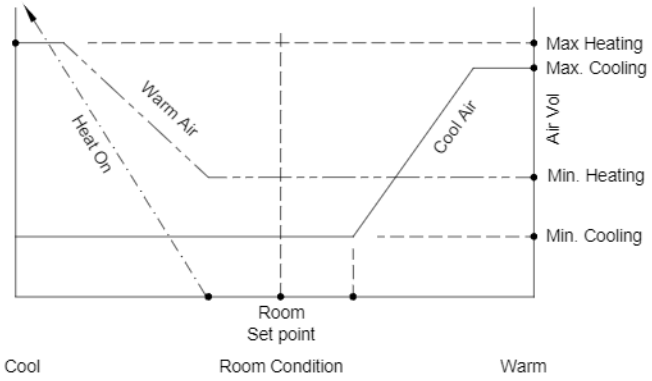
LEGEND

FACTORY FLOW SENSOR TUBING

FACTORY ELECTRICAL WIRING

FIELD ELECTRICAL WIRING

CONTROL GRAPH



Sequence of Operation -- Heat/cool changeover OR cooling
With up to 3 stage binary reheat - Pressure Independent

On power up the damper will calibrate closed for 2 minutes.

If no SAT sensor is present, the controller assumes Cool supply air at all times

Cool supply air: On an increase in space temperature the controller regulates the actuator to open the VAV damper and increase the flow of cool air. On an increase of space temperature greater than the cooling proportional band, the airflow is maintained at its pre-selected maximum setting.

On a decrease in space temperature the controller regulates the actuator to close the VAV damper and reduce the flow of cool air. If the space temperature decreases to less than the cooling proportional band, the airflow is maintained at the pre-selected minimum setting.

Warm supply air: On a decrease in space temperature the controller regulates the actuator to open the VAV damper and increase the flow of warm air. On a decrease of space temperature greater than the heating proportional band, the airflow is maintained at its pre-selected maximum setting.

On an increase in space temperature the controller regulates the actuator to close the VAV damper and reduce the flow of warm air. If the space temperature increases above the heating proportional band, the airflow is maintained at the pre-selected minimum setting.

Reheat Operation: On a decrease in space temperature into the heating proportional band, the HW valve is modulated to increase heat proportionally to room demand.

PROJECT:			
ENGINEER:		GF mm	SINGLE DUCT PAC PRESSURE INDEPENDENT HEAT/COOL C/O OR COOLING WITH FIELD WIRED TRI-STATE HW
CUSTOMER:		264451	
SUBMITTAL DATE:	**SPEC. SYMBOL:**	2014/03/14	

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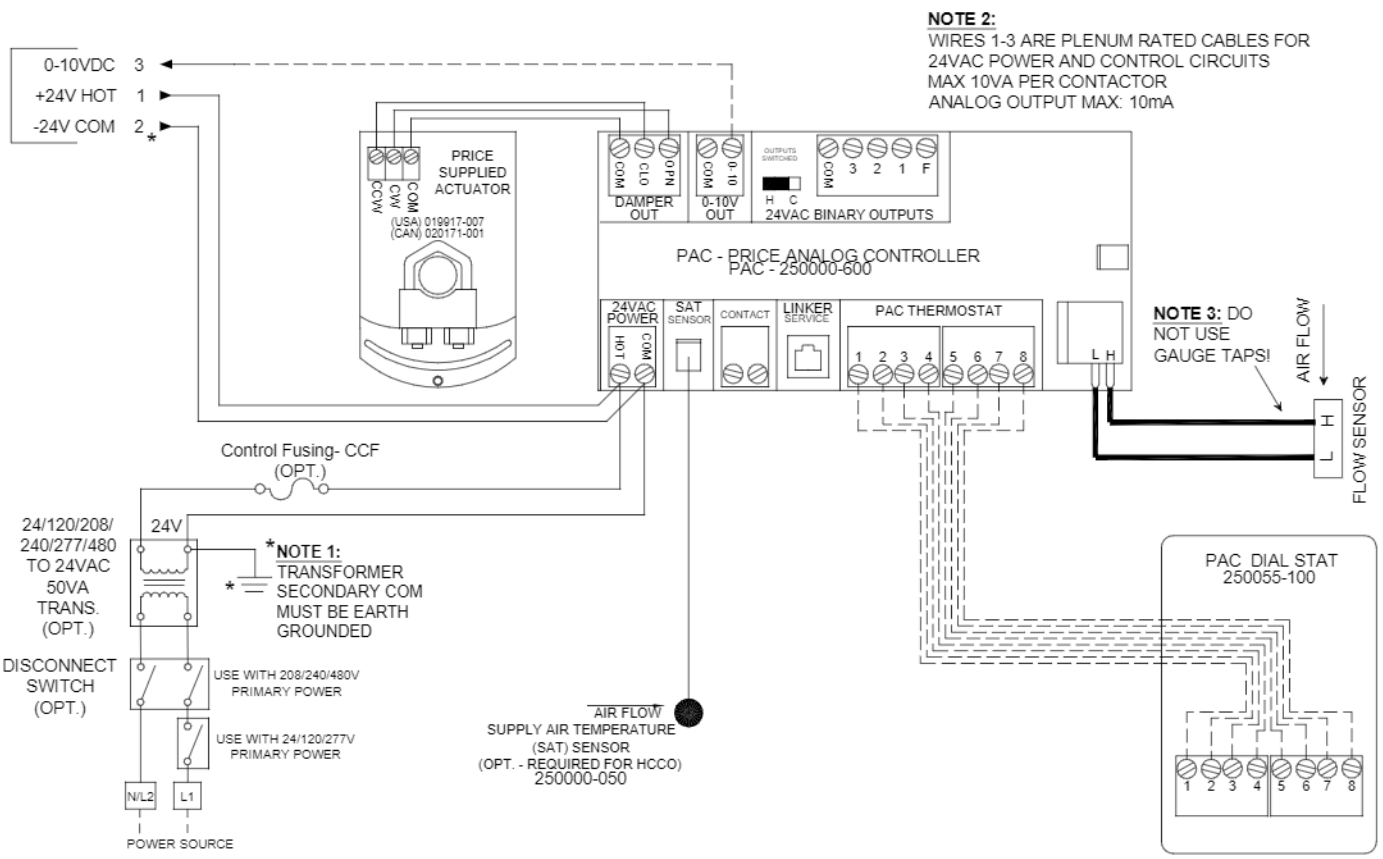
REV 0

SINGLE DUCT DIGITAL CONTROLS

Control Sequence Number 1804



Calibration note: Suitable min and max heating flows must be selected in order to maintain flow through energized electric coils of at least 200 fpm and at least 70 cfm/kW throughout the entire operating range.

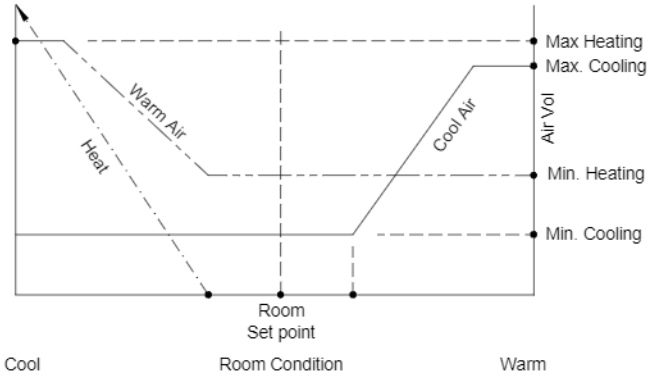
LEGEND

FACTORY FLOW SENSOR TUBING

FACTORY ELECTRICAL WIRING

FIELD ELECTRICAL WIRING

CONTROL GRAPH



Sequence of Operation -- Heat/cool changeover OR cooling With Analog modulating reheat - Pressure Independent

On power up the damper will calibrate closed for 2 minutes.

If no SAT sensor is present, the controller assumes Cool supply air at all times

Cool supply air: On an increase in space temperature the controller regulates the actuator to open the VAV damper and increase the flow of cool air. On an increase of space temperature greater than the cooling proportional band, the airflow is maintained at its pre-selected maximum setting.

On a decrease in space temperature the controller regulates the actuator to close the VAV damper and reduce the flow of cool air. If the space temperature decreases to less than the cooling proportional band, the airflow is maintained at the pre-selected minimum setting.

Warm supply air: On a decrease in space temperature the controller regulates the actuator to open the VAV damper and increase the flow of warm air. On a decrease of space temperature greater than the heating proportional band, the airflow is maintained at its pre-selected maximum setting.

On an increase in space temperature the controller regulates the actuator to close the VAV damper and reduce the flow of warm air. If the space temperature increases above the heating proportional band, the airflow is maintained at the pre-selected minimum setting.

Reheat Operation: On a decrease in space temperature, the controller modulates the 0-10VDC ouput to increase heat proportionally to the room demand.

PROJECT:			
ENGINEER:		GF mm	SINGLE DUCT PAC PRESSURE INDEPENDENT HEAT/COOL C/O OR COOLING WITH FIELD WIRED ANALOG HEAT
CUSTOMER:		264452	
SUBMITTAL DATE:	**SPEC. SYMBOL:**	2014/03/14	

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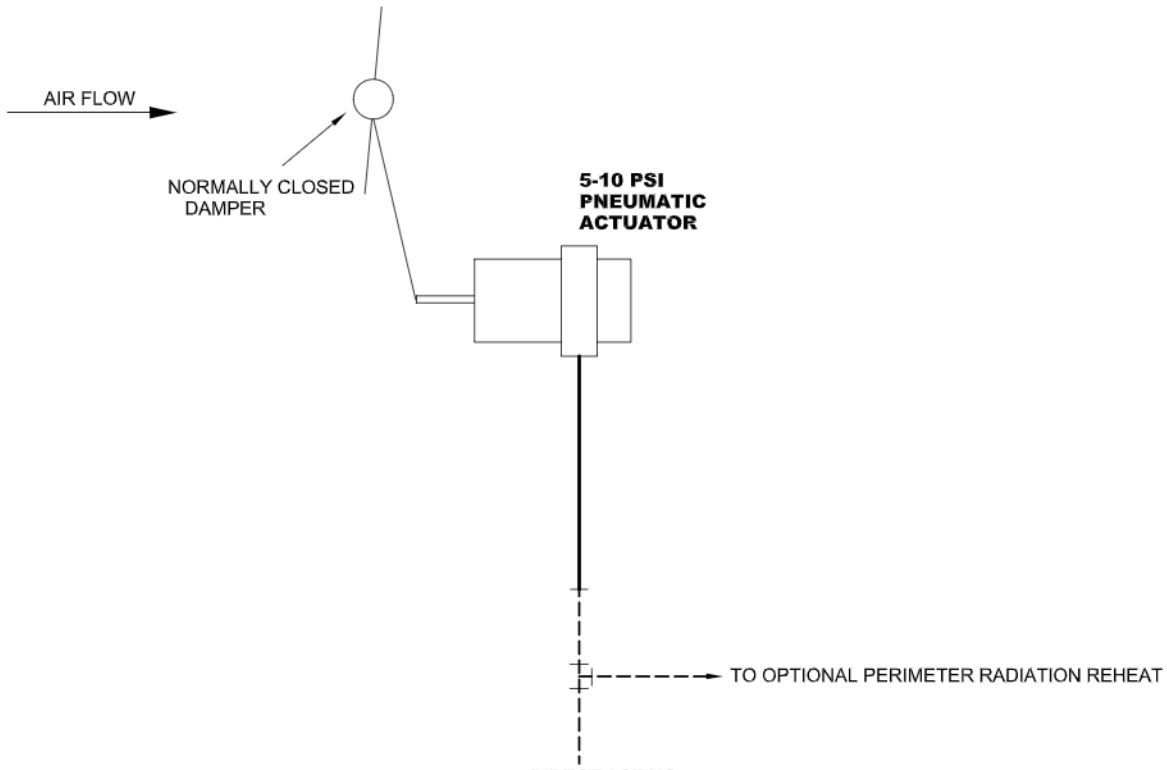
REV 0

SINGLE DUCT PNEUMATIC CONTROLS

Control Sequence Number 1000



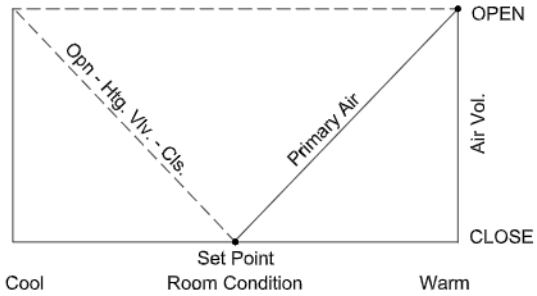
NOTE:
IF MOTOR SPRING RANGE IS TO BE OTHER THAN 5-10 PSI, PLEASE SPECIFY.
OPTIONAL SPRING RANGES MAY BE REQUIRED TO ACCOMMODATE THE THERMOSTAT RANGE AND TO SEQUENCE WITH ANY OTHER CONTROLLED DEVICES IN THE SYSTEM.

LEGEND

FACTORY PNEUMATIC TUBING

FIELD PNEUMATIC TUBING

CONTROL GRAPH



Sequence of Operation -- Pressure dependent, variable volume, normally closed, direct acting cooling application.

An increase in space temperature increases the thermostat output pressure. As the thermostat output increases from 5-10 psi or more, the VAV box damper is driven to the open position.

A decrease in space temperature decreases the thermostat output pressure. As the thermostat output decreases from to 10-5 psi or less, the VAV box damper is driven to the closed position.

Normally Closed Damper:

On failure of the main air supply the damper will fail to the closed position.

PROJECT:			SPV6 / RPV6 / LPV6 5-10 PSI Actuator Cooling, Reheat Optional Variable Volume Pressure dependent D.A. T'Stat, N.C. Damper
ENGINEER:		BH/BC	
CUSTOMER:		231683	
SUBMITTAL DATE:	**SPEC. SYMBOL:**	2011/11/07	

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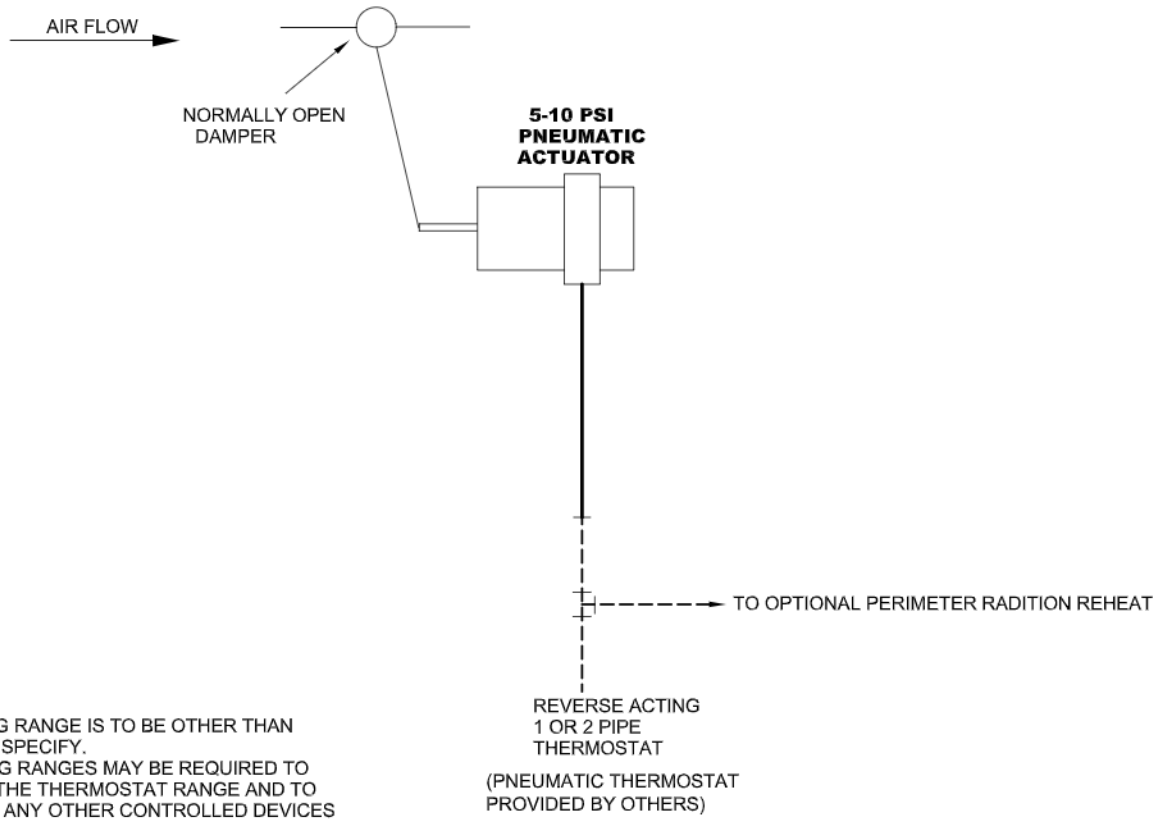
REV A

SINGLE DUCT PNEUMATIC CONTROLS

Control Sequence Number 1001



NOTE:

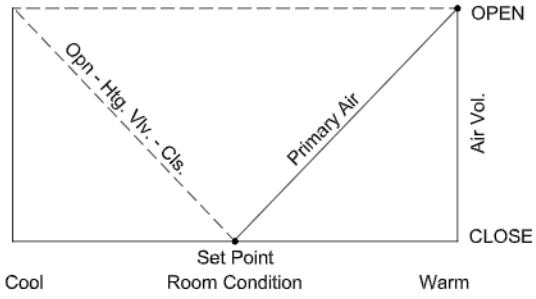
IF MOTOR SPRING RANGE IS TO BE OTHER THAN 5-10 PSI, PLEASE SPECIFY.
OPTIONAL SPRING RANGES MAY BE REQUIRED TO ACCOMMODATE THE THERMOSTAT RANGE AND TO SEQUENCE WITH ANY OTHER CONTROLLED DEVICES IN THE SYSTEM.

LEGEND

FACTORY PNEUMATIC TUBING

FIELD PNEUMATIC TUBING

CONTROL GRAPH



Sequence of Operation -- Pressure dependent, variable volume, normally open, reverse acting cooling application.

An increase in space temperature decreases the thermostat output pressure. As the thermostat output decreases from 10-5 psi or less, the VAV box damper is driven to the open position.

A decrease in space temperature increases the thermostat output pressure. As the thermostat output increases from to 5-10 psi or more, the VAV box damper is driven to the closed position.

Normally Open Damper:

On failure of the main air supply the damper will fail to the open position.

PROJECT:			
ENGINEER:		BJH/BL	SPV6 / RPV6 / LPV6 5-10 PSI Actuator Cooling, Reheat Optional Variable Volume Pressure dependent R.A. T'Stat, N.O. Damper
CUSTOMER:		231684	
SUBMITTAL DATE:	**SPEC. SYMBOL:**	2011/11/07	

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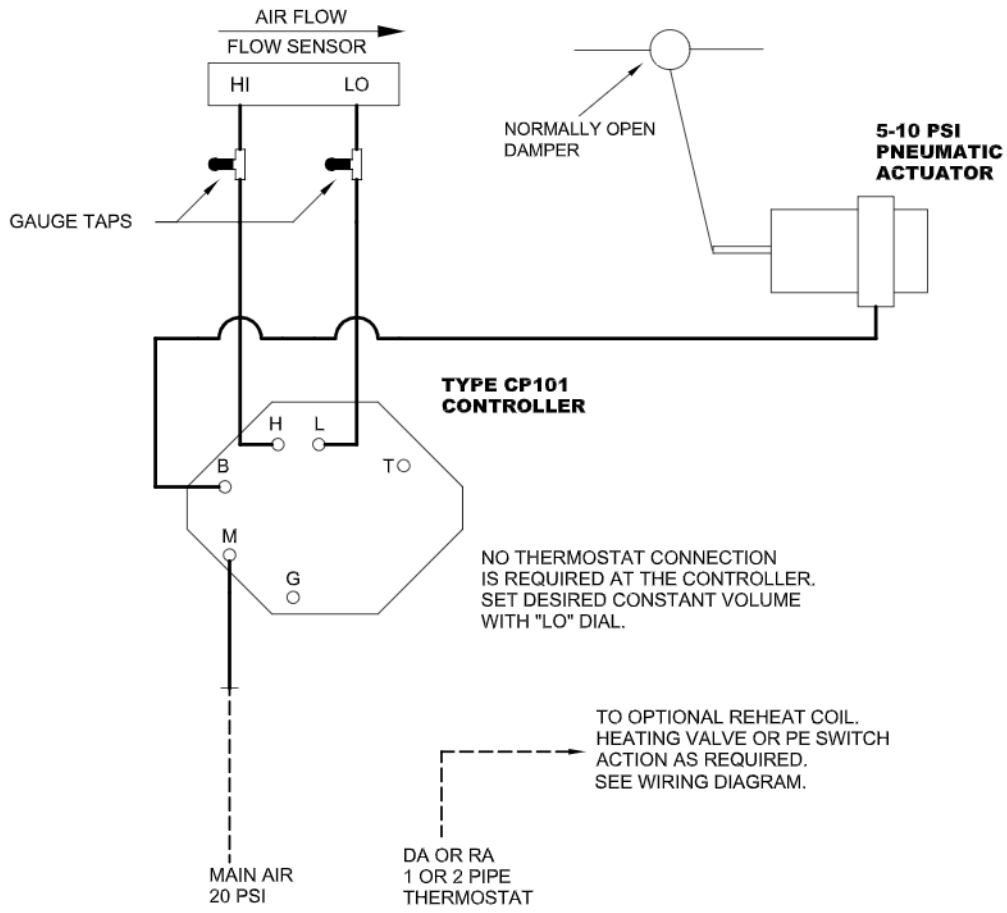
REV A

SINGLE DUCT PNEUMATIC CONTROLS

Control Sequence Number 1004



NOTE:

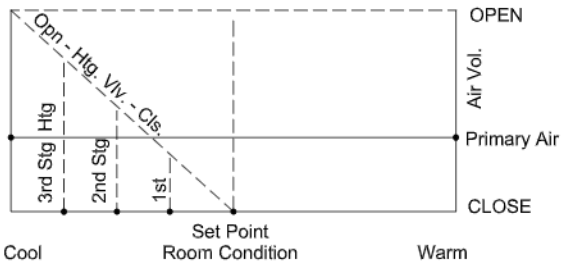
1) TOTAL AIR CONSUMPTION 0.017 SCFM.

LEGEND

FACTORY PNEUMATIC TUBING

FIELD PNEUMATIC TUBING

CONTROL GRAPH



Sequence of Operation -- Pressure independent, constant volume, normally open, direct acting cooling with optional reheat.

The controller will maintain the preselected flow setting.
It will modulate the damper based on changes in the duct pressure to maintain a constant air flow.
The thermostat may control optional reheat coils.

Normally Open Damper:

On failure of the main air supply the damper will fail to the open position.

PROJECT:			SPV8 / RPV8 / LPV8 Kreuter CP101 Clg., Reheat Optional Constant Volume Pressure Independent D.A. Controller, N.O. Damper
ENGINEER:		BJH/BL	
CUSTOMER:		231687	
SUBMITTAL DATE:	**SPEC. SYMBOL:**	2011/11/07	

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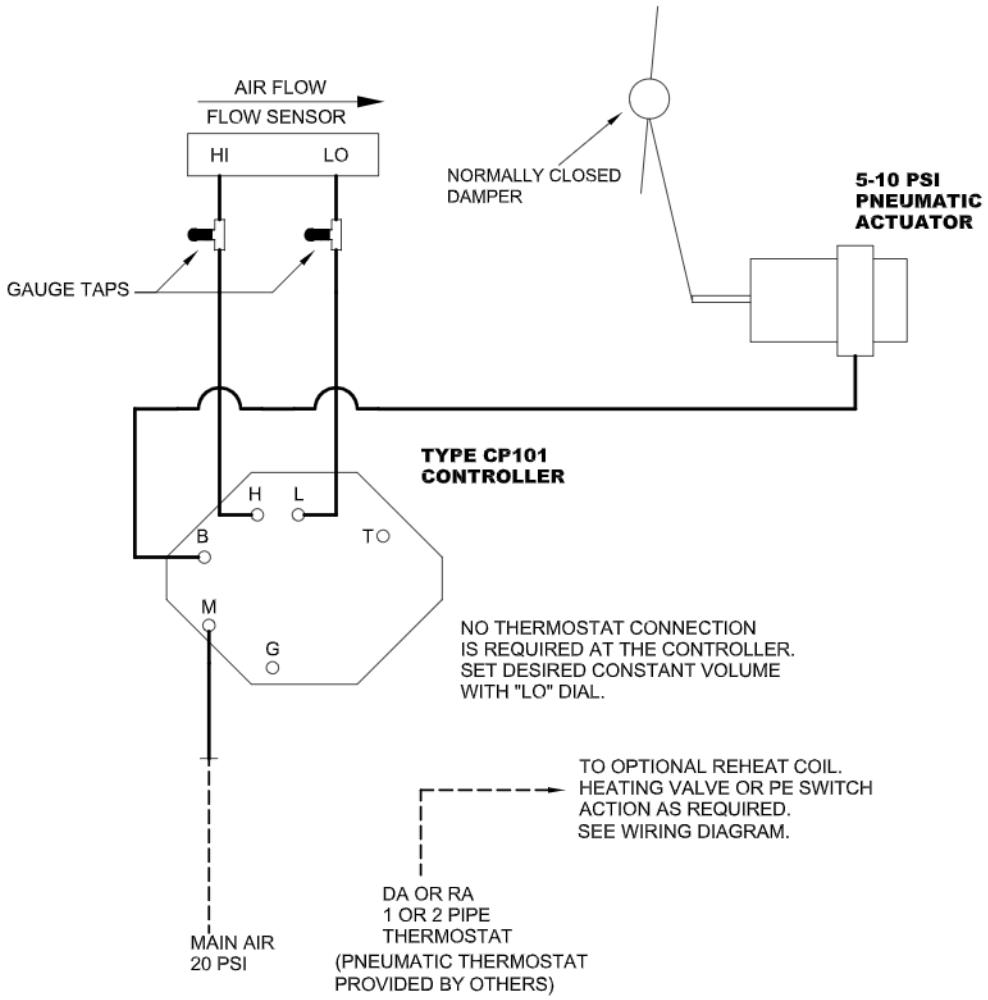
REV A

SINGLE DUCT PNEUMATIC CONTROLS

Control Sequence Number 1005



NOTE:

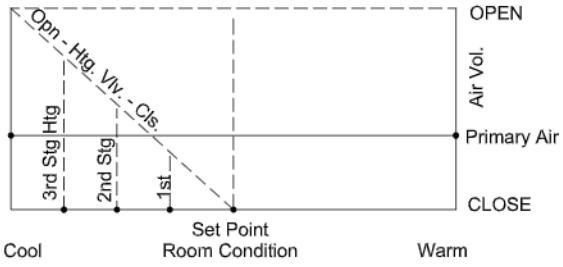
1) TOTAL AIR CONSUMPTION 0.017 SCFM.

LEGEND

——— FACTORY PNEUMATIC TUBING

– – – – – – – FIELD PNEUMATIC TUBING

CONTROL GRAPH



Sequence of Operation -- Pressure independent, constant volume, normally closed, direct acting cooling with optional reheat.

The controller will maintain the preselected flow setting.
It will modulate the damper based on changes in the duct pressure to maintain a constant air flow.
The thermostat may control optional reheat coils.

Normally Closed Damper:

On failure of the main air supply the damper will fail to the closed position.

PROJECT:			SPV8 / RPV8 / LPV8 Kreuter CP101 Clg., HW Reheat Optional Constant Volume Pressure Independent D.A. Controller, N.C. Damper
ENGINEER:		BJH/BE	
CUSTOMER:		231688	
SUBMITTAL DATE:	**SPEC. SYMBOL:**	2011/11/07	

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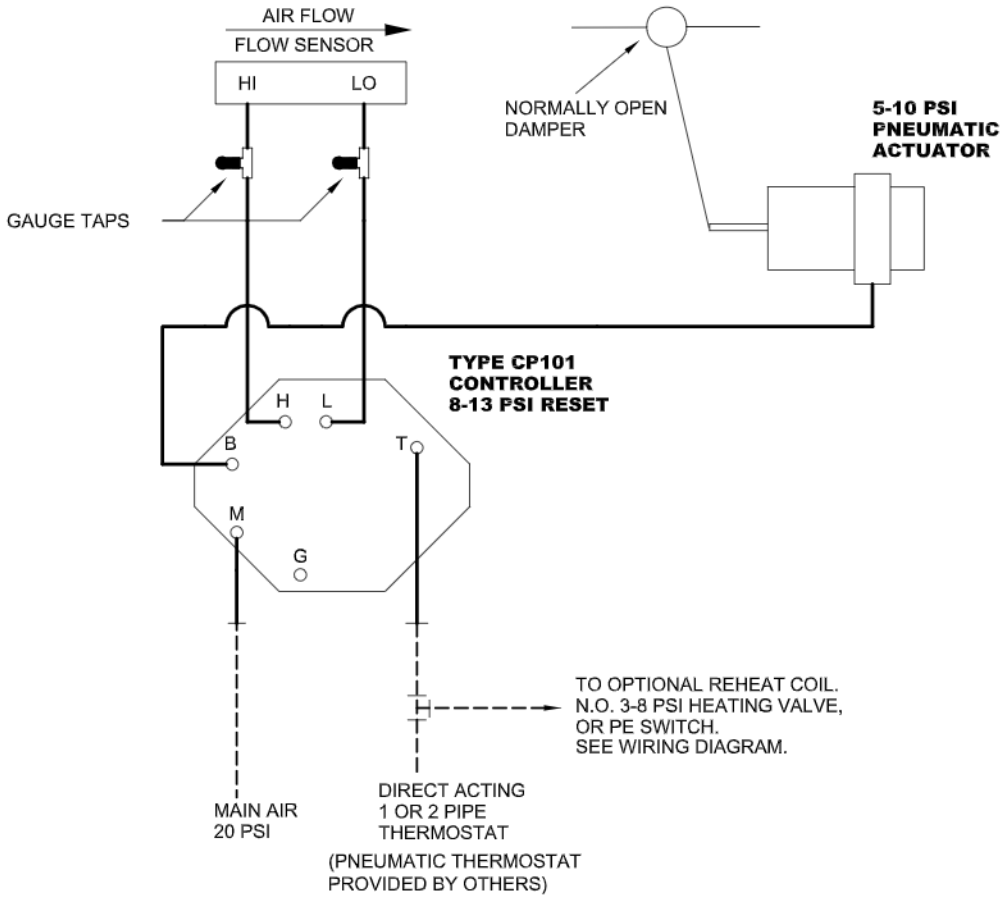
REV A

SINGLE DUCT PNEUMATIC CONTROLS

Control Sequence Number 1008



NOTE:

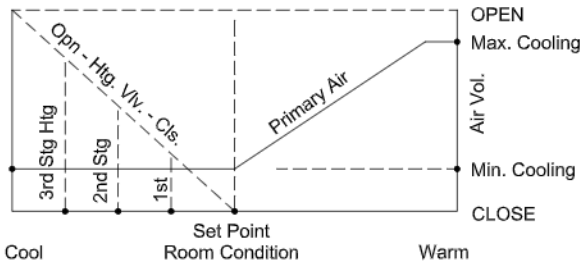
1) TOTAL AIR CONSUMPTION 0.017 SCFM.

LEGEND

——— FACTORY PNEUMATIC TUBING

– – – – – – – FIELD PNEUMATIC TUBING

CONTROL GRAPH



Sequence of Operation -- Pressure independent, variable volume, normally open, direct acting cooling application, with optional reheat.

An increase in space temperature increases the thermostat output pressure. When the thermostat output increases to 13 psi or more, the VAV box damper is maintained at the preselected maximum flow setting. A decrease in space temperature decreases the thermostat output pressure. When the thermostat output decreases to 8 psi or less, the VAV box damper is maintained at the preselected minimum flow setting. At thermostat output pressures between 8 & 13 psi the VAV damper modulates between minimum & maximum flow.

At thermostat output pressures below 8 psi the minimum flow setting is maintained, and the thermostat may control optional reheat coils. Airflow is held constant at any given thermostat output pressure regardless of changes in inlet duct static pressure.

Normally Open Damper:

On failure of the main air supply the damper will fail to the open position.

PROJECT:			
ENGINEER:			SPV8 / RPV8 / LPV8 Kreuter CP101 Clg., Reheat Optional Variable Volume Pressure Independent D.A. T'Stat, N.O. Damper
CUSTOMER:		231691	
SUBMITTAL DATE:	**SPEC. SYMBOL:**	2011/11/07	

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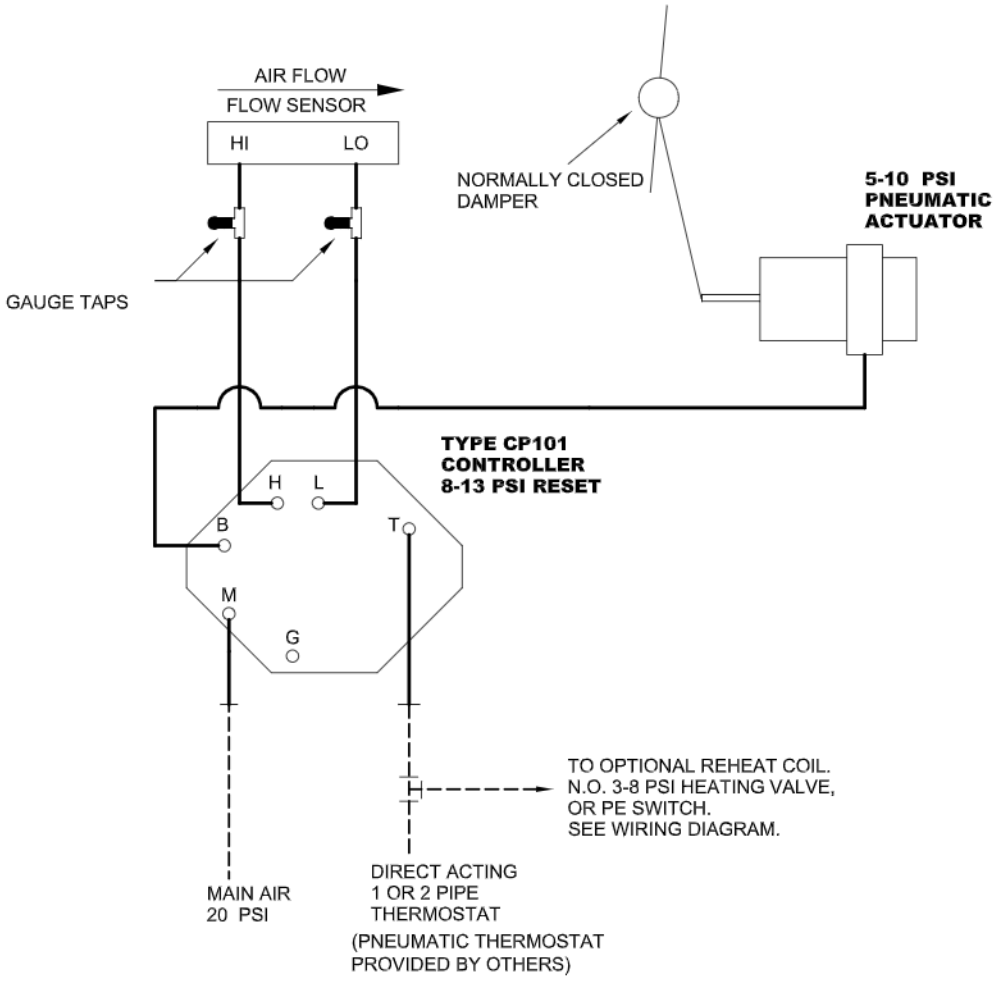
REV A

SINGLE DUCT PNEUMATIC CONTROLS

Control Sequence Number 1009



NOTE:

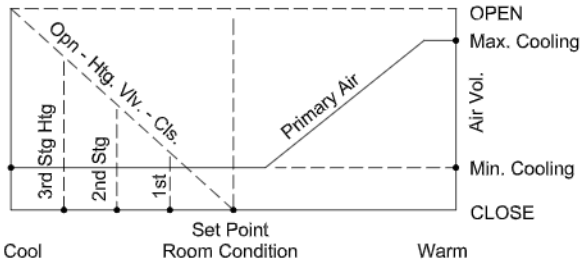
1) TOTAL AIR CONSUMPTION 0.017 SCFM.

LEGEND

FACTORY PNEUMATIC TUBING

FIELD PNEUMATIC TUBING

CONTROL GRAPH



Sequence of Operation -- Pressure independent, variable volume, normally closed, direct acting cooling application, with optional reheat.

An increase in space temperature increases the thermostat output pressure. When the thermostat output increases to 13 psi or more, the VAV box damper is maintained at the preselected maximum flow setting. A decrease in space temperature decreases the thermostat output pressure. When the thermostat output decreases to 8 psi or less, the VAV box damper is maintained at the preselected minimum flow setting. At thermostat output pressures between 8 & 13 psi the VAV damper modulates between minimum & maximum flow.

At thermostat output pressures below 8 psi the minimum flow setting is maintained, and the thermostat may control optional reheat coils. Airflow is held constant at any given thermostat output pressure regardless of changes in inlet duct static pressure.

Normally Closed Damper:

On failure of the main air supply the damper will fail to the closed position.

PROJECT:			
ENGINEER:		BJH/BL	SPV8 / RPV8 / LPV8 Kreuter CP101 Clg., Reheat Optional Variable Volume Pressure Independent D.A. T'Stat, N.C. Damper
CUSTOMER:		231692	
SUBMITTAL DATE:	**SPEC. SYMBOL:**	2011/11/07	

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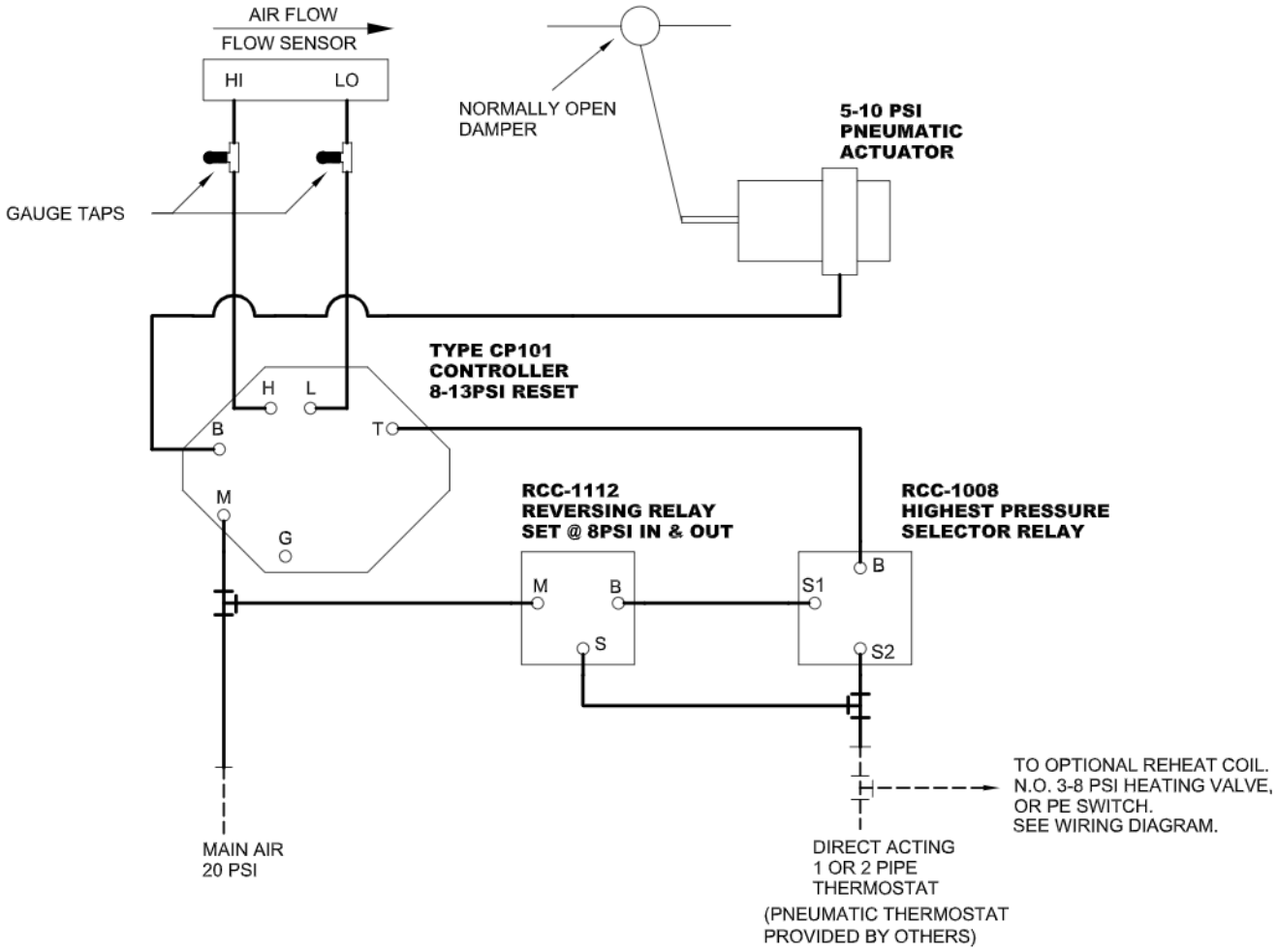
REV A

SINGLE DUCT PNEUMATIC CONTROLS

Control Sequence Number 1010



NOTE:

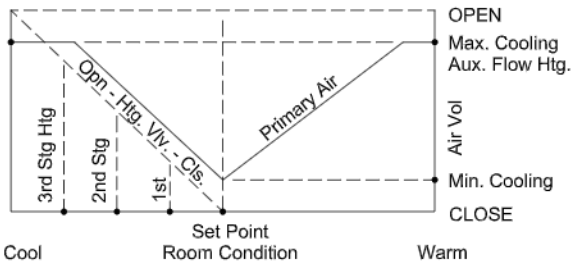
1) TOTAL AIR CONSUMPTION 0.027 SCFM.

LEGEND

——— FACTORY PNEUMATIC TUBING

– – – – – – – FIELD PNEUMATIC TUBING

CONTROL GRAPH



Sequence of Operation -- Pressure independent, variable volume, normally open, direct acting cooling with auxiliary flow on heating.

An increase in space temperature increases the thermostat output pressure. When the thermostat output increases to 13 psi or more, the VAV box damper is maintained at the pre-selected maximum flow setting.

A decrease in space temperature decreases the thermostat output pressure. When the thermostat output decreases to 8 psi, the VAV box damper is maintained at the pre-selected minimum flow setting.

As thermostat output pressure continues to decrease between 8 & 3 psi the VAV damper modulates to the auxiliary flow setting.

At thermostat output pressures below 8 psi the thermostat may also control optional reheat coils.

Airflow is held constant at any given thermostat output pressure regardless of changes in inlet duct static pressure.

Normally Open Damper:

On failure of the main air supply the damper will fail to the open position.

PROJECT:			
ENGINEER:		BH/BC	SPV8 / RPV8 / LPV8 Kreuter CP101 Clg., Reheat Optional Var. Vol. Clg. - Aux. Flow Htg. Pressure Independent D.A. T'Stat, N.O. Damper
CUSTOMER:		231693	
SUBMITTAL DATE:	**SPEC. SYMBOL:**	2011/11/07	

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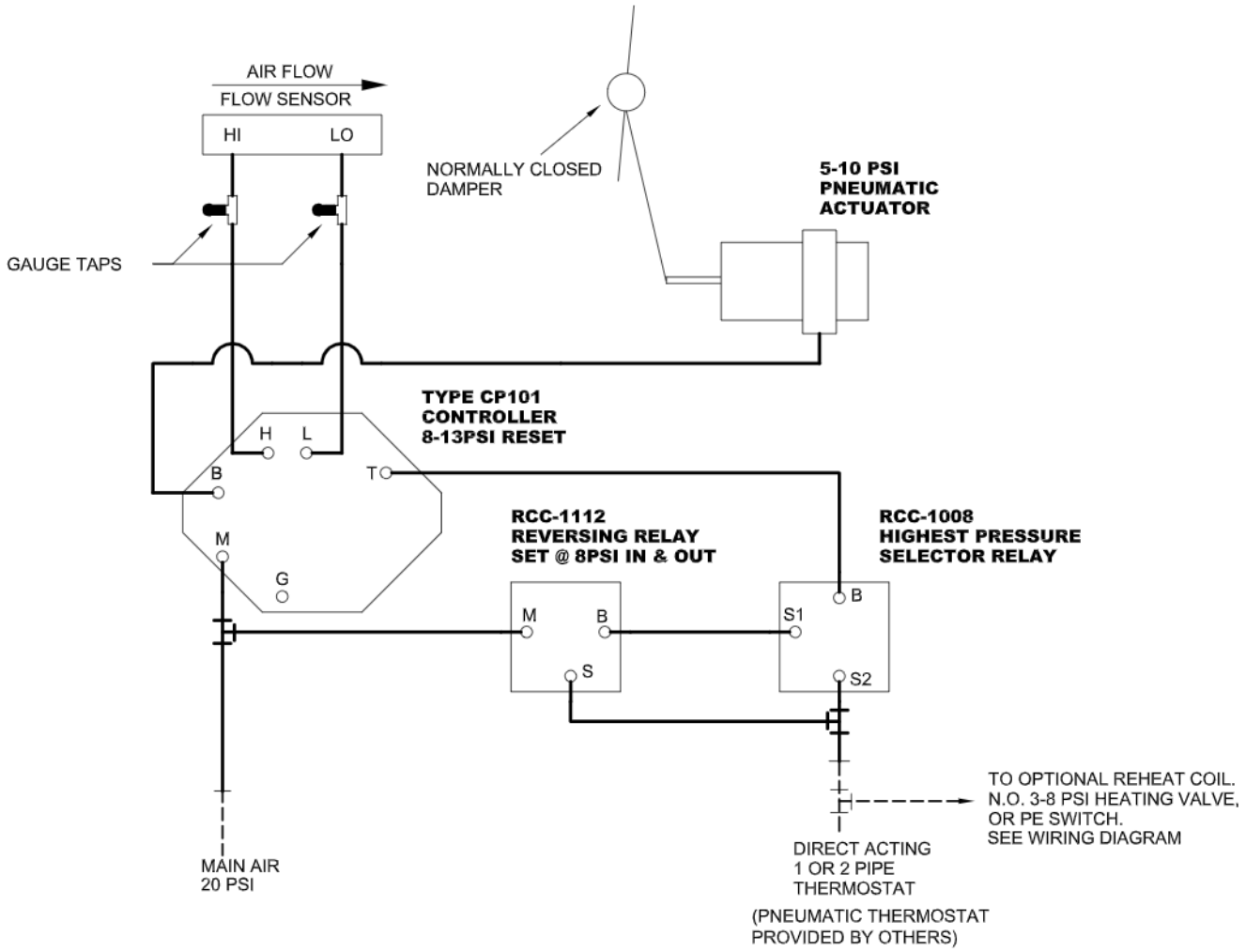
REV A

SINGLE DUCT PNEUMATIC CONTROLS

Control Sequence Number 1011



NOTE:

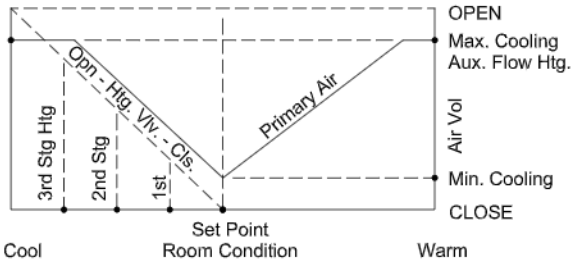
1) TOTAL AIR CONSUMPTION 0.027 SCFM.

LEGEND

FACTORY PNEUMATIC TUBING

FIELD PNEUMATIC TUBING

CONTROL GRAPH



Sequence of Operation -- Pressure independent, variable volume, normally closed, direct acting cooling with auxiliary flow on heating.

An increase in space temperature increases the thermostat output pressure. When the thermostat output increases to 13 psi or more, the VAV box damper is maintained at the pre-selected maximum flow setting.

A decrease in space temperature decreases the thermostat output pressure. When the thermostat output decreases to 8 psi, the VAV box damper is maintained at the pre-selected minimum flow setting.

As thermostat output pressure continues to decrease between 8 & 3 psi the VAV damper modulates to the auxiliary heating flow setting.

At thermostat output pressures below 8 psi the thermostat may also control optional reheat coils.

Airflow is held constant at any given thermostat output pressure regardless of changes in inlet duct static pressure.

Normally Closed Damper:

On failure of the main air supply the damper will fail to the closed position.

PROJECT:			SPV8 / RPV8 / LPV8 Kreuter CP101 Clg., Reheat Optional Var. Vol. Clg. - Aux. Flow Htg. Pressure Independent D.A. T'Stat, N.C. Damper
ENGINEER:		BJH/BL	
CUSTOMER:		231694	
SUBMITTAL DATE:	**SPEC. SYMBOL:**	2011/11/07	

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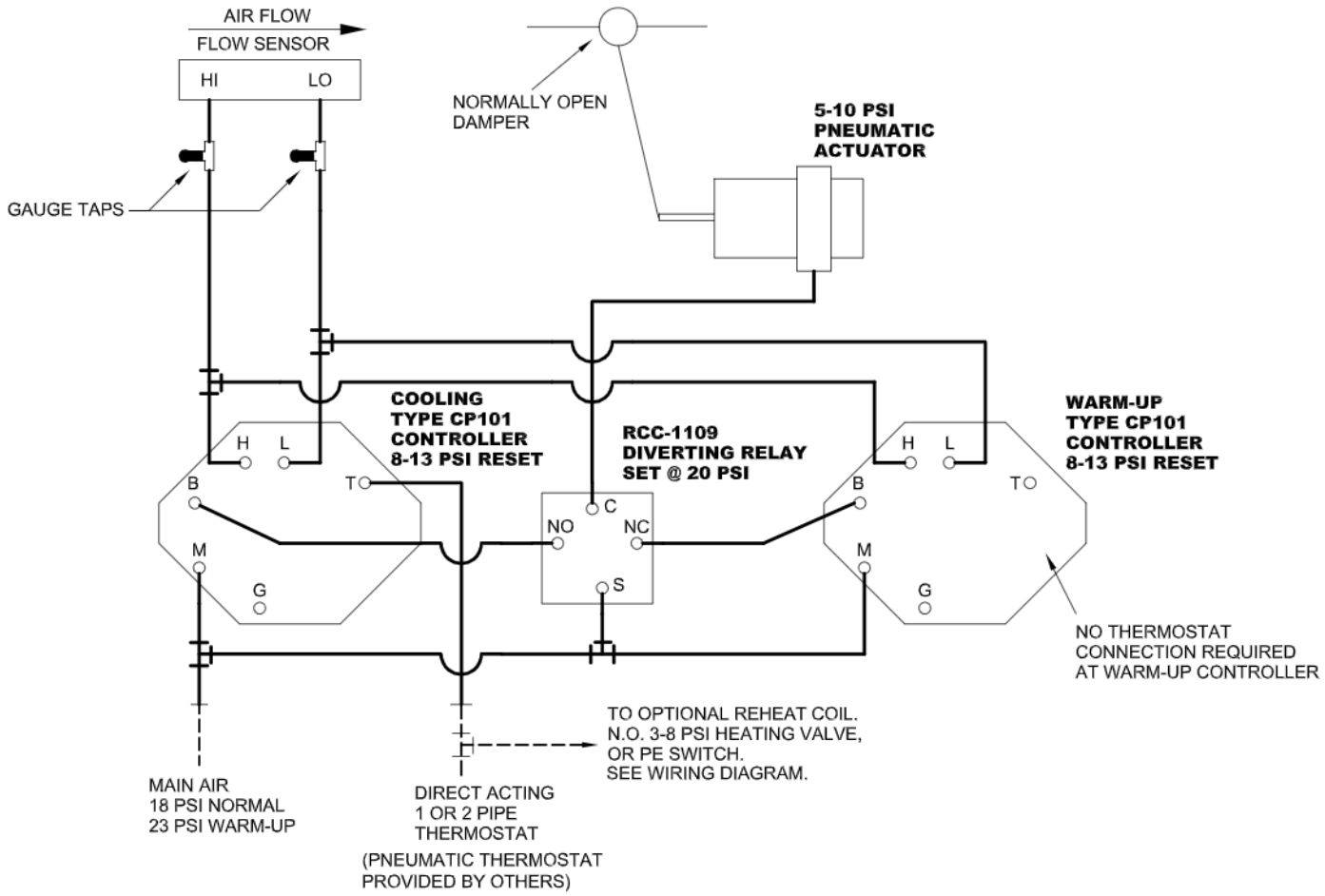
REV A

SINGLE DUCT PNEUMATIC CONTROLS

Control Sequence Number 1016



NOTE:

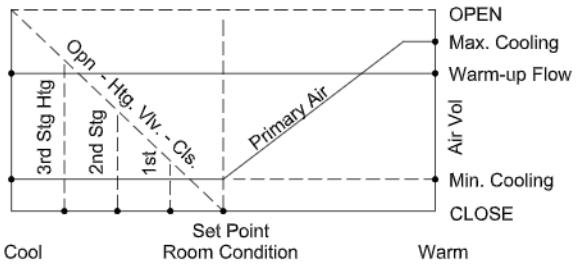
1) TOTAL AIR CONSUMPTION 0.034 SCFM.

LEGEND

FACTORY PNEUMATIC TUBING

FIELD PNEUMATIC TUBING

CONTROL GRAPH



Sequence of Operation -- Pressure independent, variable volume on cooling, normally open, direct acting, adjustable constant volume on warm-up application, and optional reheat.

Normal operation with main air pressure at 18 psi: an increase in space temperature increases the thermostat output pressure. When the thermostat output increases to 13 psi or more, the VAV box damper is maintained at the preselected maximum flow setting.

A decrease in space temperature decreases the thermostat output pressure. When the thermostat output decreases to 8 psi, the VAV box damper is maintained at the preselected minimum flow setting.

As thermostat output pressure continues to decrease between 8 & 3 psi, the VAV damper is maintained at the preselected minimum setting.

At thermostat output pressures below 8 p.s.i. the thermostat may also control optional reheat coils.

Warm-up with main air pressure at 23 psi: the VAV damper is opened to the preselected warm-up flow setting. Optional reheat coils operate in the normal manner.

Airflow is held constant at any given thermostat output pressure and in the warm-up mode, regardless of changes in inlet duct static pressure.

Normally Open Damper:

On failure of the main air supply the damper will fail to the open position.

PROJECT:			
ENGINEER:		BJH/BC	SPV8 / RPV8 / LPV8 Kreuter CP101 Clg., Reheat Optional Var. Vol. Clg. - Adj. Warm-Up Pressure Independent D.A. T'Stat, N.O. Damper
CUSTOMER:		231699	
SUBMITTAL DATE:	**SPEC. SYMBOL:**	2011/11/07	

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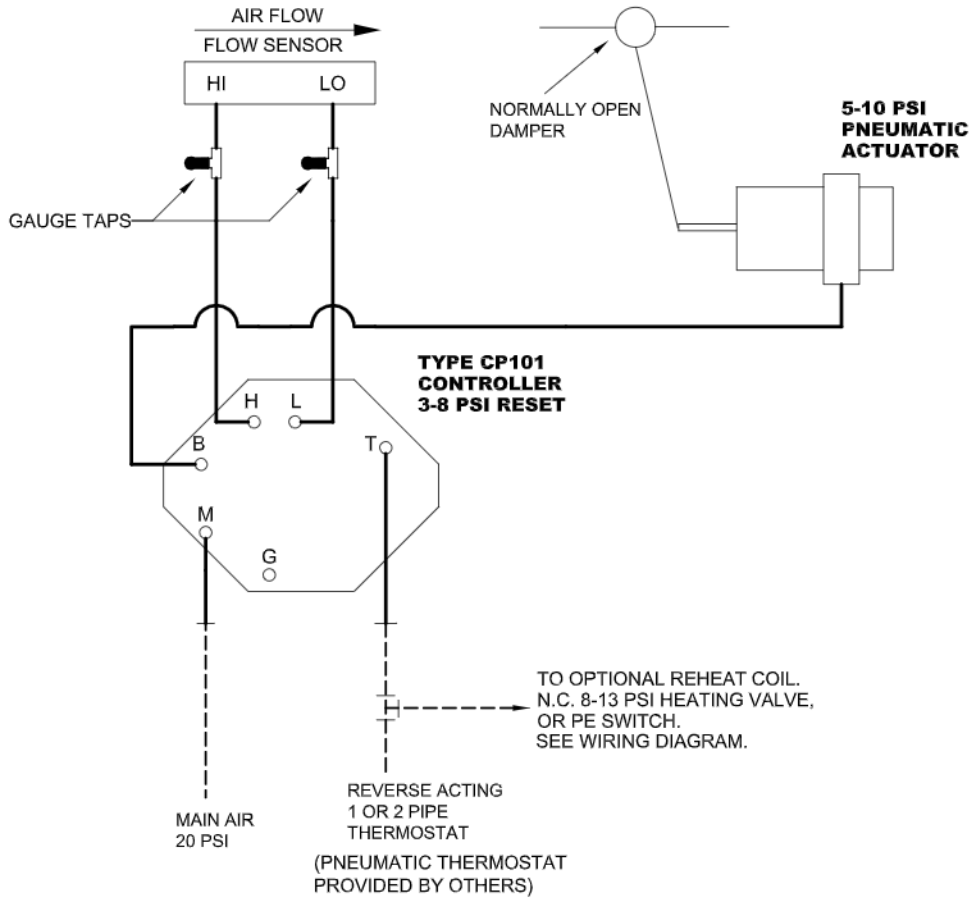
REV A

SINGLE DUCT PNEUMATIC CONTROLS

Control Sequence Number 1018



NOTE:

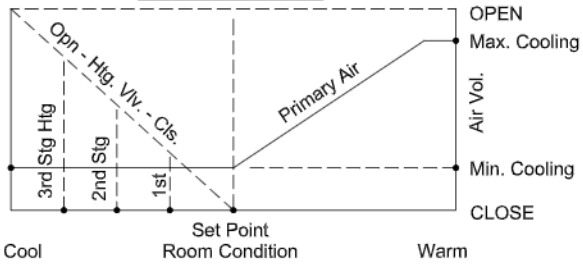
1) TOTAL AIR CONSUMPTION 0.017 SCFM.

LEGEND

——— FACTORY PNEUMATIC TUBING

– – – – – – – FIELD PNEUMATIC TUBING

CONTROL GRAPH



Sequence of Operation -- Pressure independent, variable volume, normally open, reverse acting cooling application, with optional reheat.

An increase in space temperature decreases the thermostat output pressure. When the thermostat output decreases to 3 psi or less, the VAV box damper is maintained at the pre-selected maximum flow setting.

A decrease in space temperature increases the thermostat output pressure. When the thermostat output increases to 8 psi or more, the VAV box damper is maintained at the pre-selected minimum flow setting.

At thermostat output pressures between 3 & 8 psi the VAV damper modulates between minimum & maximum flow.

At thermostat output pressures above 8 psi the minimum flow setting is maintained, and the thermostat may control optional reheat coils. Airflow is held constant at any given thermostat output pressure regardless of changes in inlet duct static pressure.

Normally Open Damper:

On failure of the main air supply the damper will fail to the open position.

PROJECT:			
ENGINEER:			SPV8 / RPV8 / LPV8 Kreuter CP101 Clg., Reheat Optional Variable Volume Pressure Independent R.A. T'Stat, N.O. Damper
CUSTOMER:		231701	
SUBMITTAL DATE:	**SPEC. SYMBOL:**	2011/11/07	

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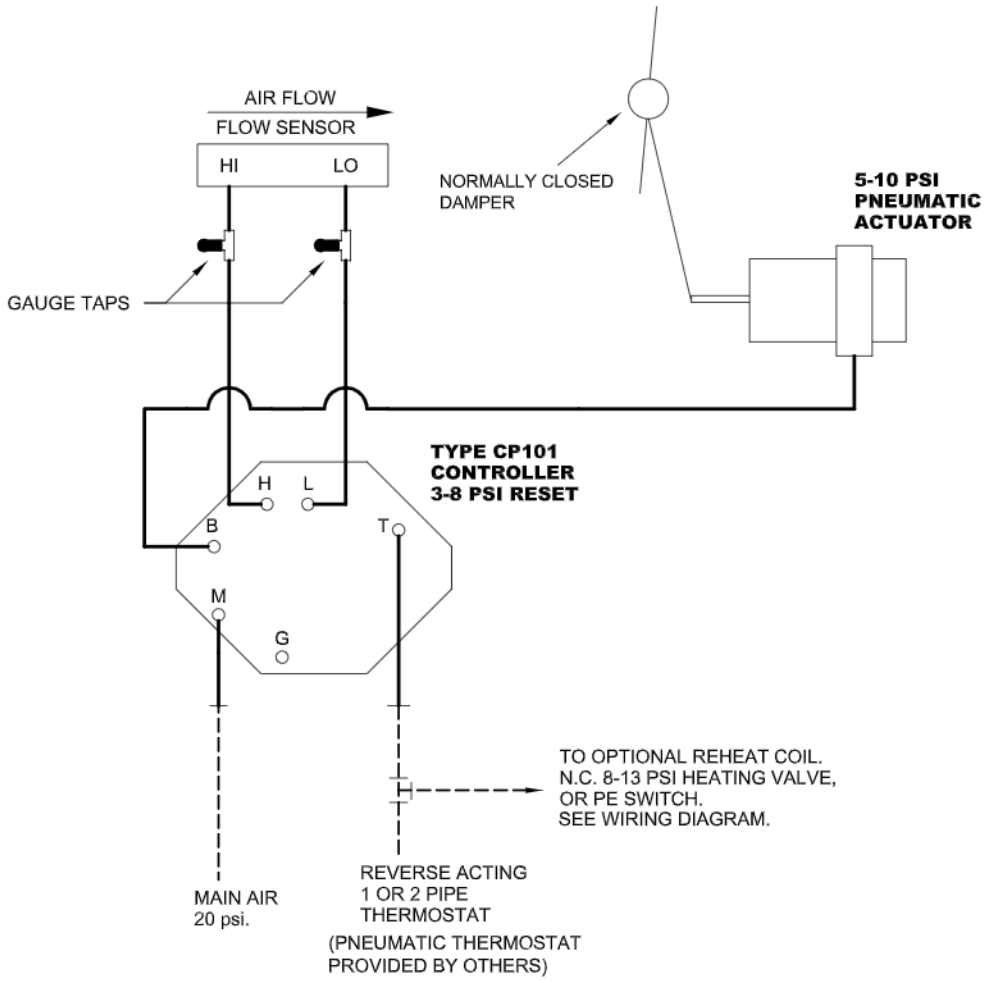
REV A

SINGLE DUCT PNEUMATIC CONTROLS

Control Sequence Number 1019



NOTE:

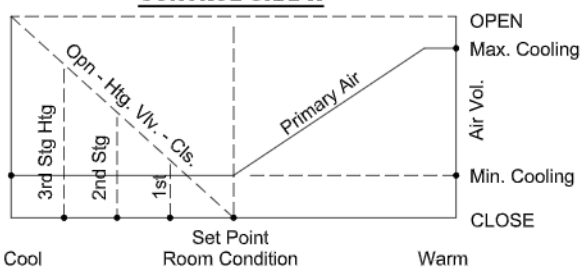
1) TOTAL AIR CONSUMPTION 0.017 SCFM.

LEGEND

FACTORY PNEUMATIC TUBING

FIELD PNEUMATIC TUBING

CONTROL GRAPH



Sequence of Operation -- Pressure independent, variable volume, normally closed, reverse acting cooling application with optional reheat.

An increase in space temperature decreases the thermostat output pressure. When the thermostat output decreases to 3 psi or less, the VAV box damper is maintained at the preselected maximum flow setting.

A decrease in space temperature increases the thermostat output pressure. When the thermostat output increases to 8 psi. or more, the VAV box damper is maintained at the preselected minimum flow setting.

At thermostat output pressures between 3 & 8 psi. the VAV damper modulates between minimum & maximum flow settings.

At thermostat output pressures above 8 psi. the minimum flow setting is maintained, and the thermostat may control optional reheat coils.

Airflow is held constant at any given thermostat output pressure regardless of changes in inlet duct static pressure.

Normally Closed Damper:

On failure of the main air supply the damper will fail to the closed position.

PROJECT:			
ENGINEER:		BJH/BL	SPV8 / RPV8 / LPV8 Kreuter CP101 Clg., Reheat Optional Variable Volume Pressure Independent R.A. T'Stat, N.C. Damper
CUSTOMER:		231702	
SUBMITTAL DATE:	**SPEC. SYMBOL:**	2011/11/07	

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REV A