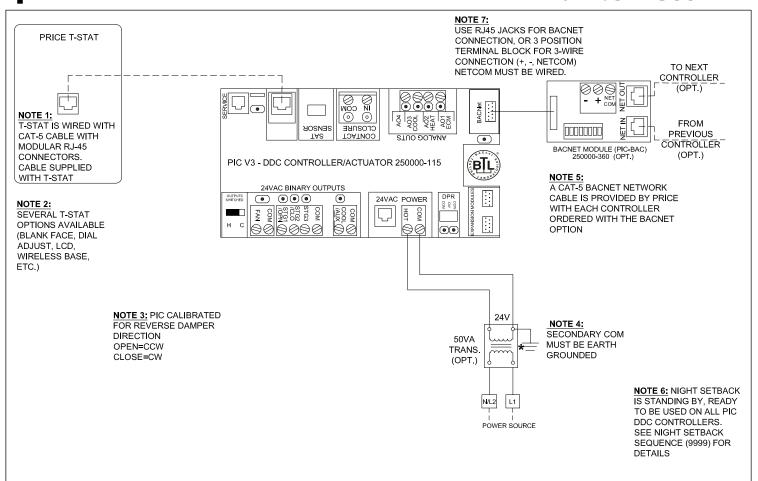


Control Sequence Number 2860

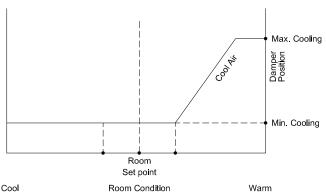


LEGEND

FACTORY ELECTRICAL WIRING

FIELD ELECTRICAL WIRING

CONTROL GRAPH



Sequence of Operation -- Cooling only Pressure Dependent

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

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.

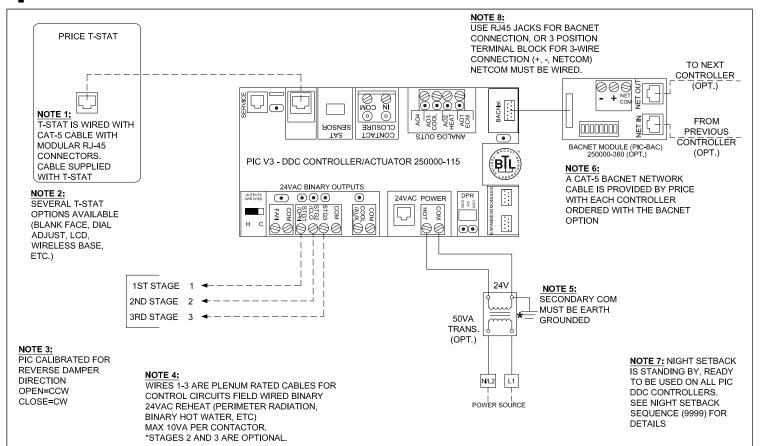
PROJECT:			Price [®]	
ENGINEER:		BC MS	LGB PIC DDC	
CUSTOMER:		260541	PRESSURE DEPENDENT COOLING ONLY	
SUBMITTAL DATE:	SPEC. SYMBOL:	2017/09/06	NO LOCAL REHEAT CONTROL	

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REV (



Control Sequence Number 2861



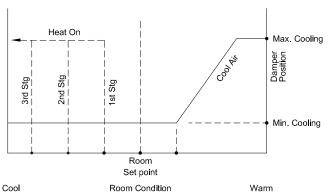
Calibration note: Suitable min and max heating flows must be selected in order to maintain flow through energized electric coils of at least 200 fpm and at least 70 cfm/kW throughout the entire operating range.

LEGEND

FACTORY ELECTRICAL WIRING

----- FIELD ELECTRICAL WIRING

CONTROL GRAPH



Sequence of Operation -- Cooling With up to 3 stage binary reheat - Pressure Dependent

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

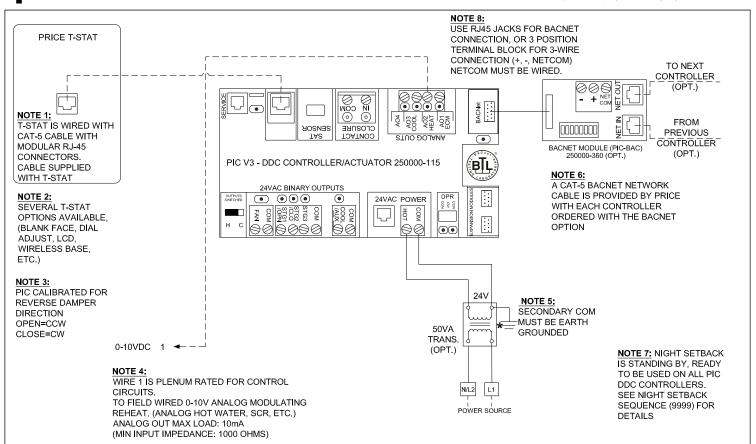
Reheat Operation: On a decrease in space temperature into the heating proportional band, the 1st stage binary 24VAC reheat output will energize. Upon futher decreases, the 2nd then 3rd stages of reheat (if used) will energize.

PROJECT:		price*
ENGINEER:		LGB PIC DDC
CUSTOMER:		PRESSURE DEPENDENT 260542 WITH UP TO 3 STG BINARY REHEAT
SUBMITTAL DATE:	SPEC. SYMBOL:	2017/09/06

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Control Sequence Number 2862



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.

FACTORY ELECTRICAL WIRING FIELD ELECTRICAL WIRING CONTROL GRAPH Max. Cooling Win. Cooling Room Set point Cool Room Condition Warm

Sequence of Operation -- Cooling With Analog modulating reheat - Pressure Dependent

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

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

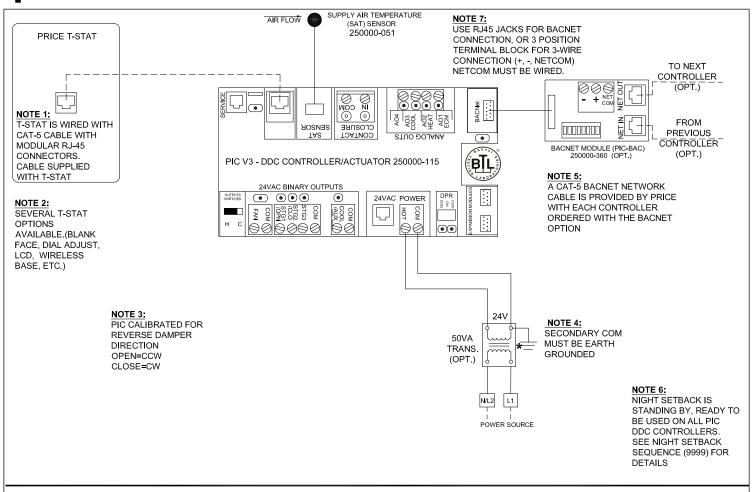
REV C

PROJECT:			Price [®]	
ENGINEER:		3° Mo	LGB PIC DDC	
CUSTOMER:		260543	PRESSURE DEPENDENT COOLING	
SUBMITTAL DATE:	SPEC. SYMBOL:	2017/09/06	0-10V ANALOG REHEAT	

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Control Sequence Number 2863

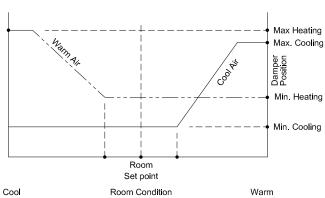


LEGEND

FACTORY ELECTRICAL WIRING

FIELD ELECTRICAL WIRING

CONTROL GRAPH



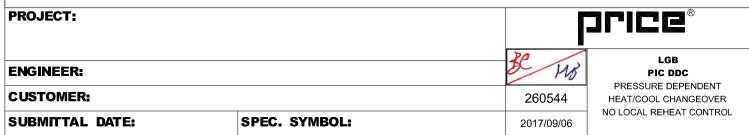
Sequence of Operation -- Heat/cool changeover Pressure Dependent

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

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.

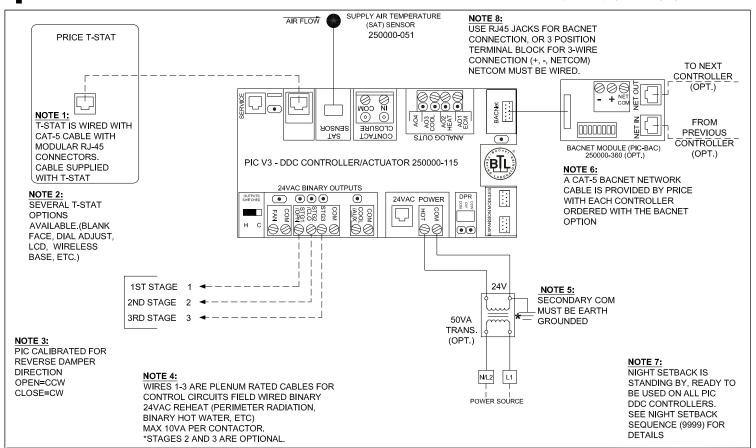
Warm supply air: On a decrease in space temperature the controller regulates the actuator to open the air damper and increase the flow of warm air. On a decrease of space temperature greater than the heating proportional band, the damper position (%) is maintained at its pre-selected maximum setting.

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.





Control Sequence Number 2864



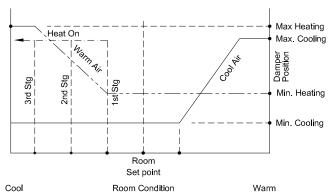
Calibration note: Suitable min and max heating flows must be selected in order to maintain flow through energized electric coils of at least 200 fpm and at least 70 cfm/kW throughout the entire operating range.

LEGEND

FACTORY ELECTRICAL WIRING

---- FIELD ELECTRICAL WIRING

CONTROL GRAPH



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

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

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

PROJECT:

ENGINEER:

CUSTOMER:

SUBMITTAL DATE:

SPEC. SYMBOL:

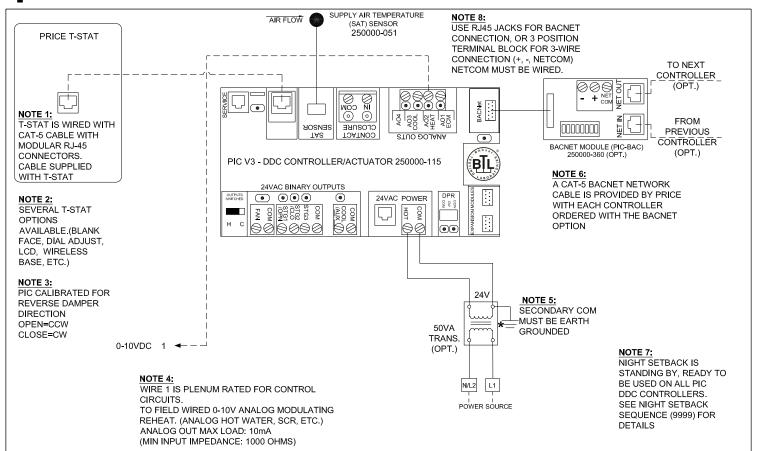
LGB
PIC DDC
PRESSURE DEPENDENT
HEAT/COOL CHANGEOVER
WITH UP TO 3 STG BINARY REHEAT

energize.

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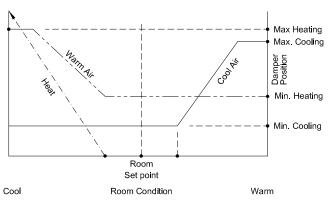


Control Sequence Number 2865



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.

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.

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.

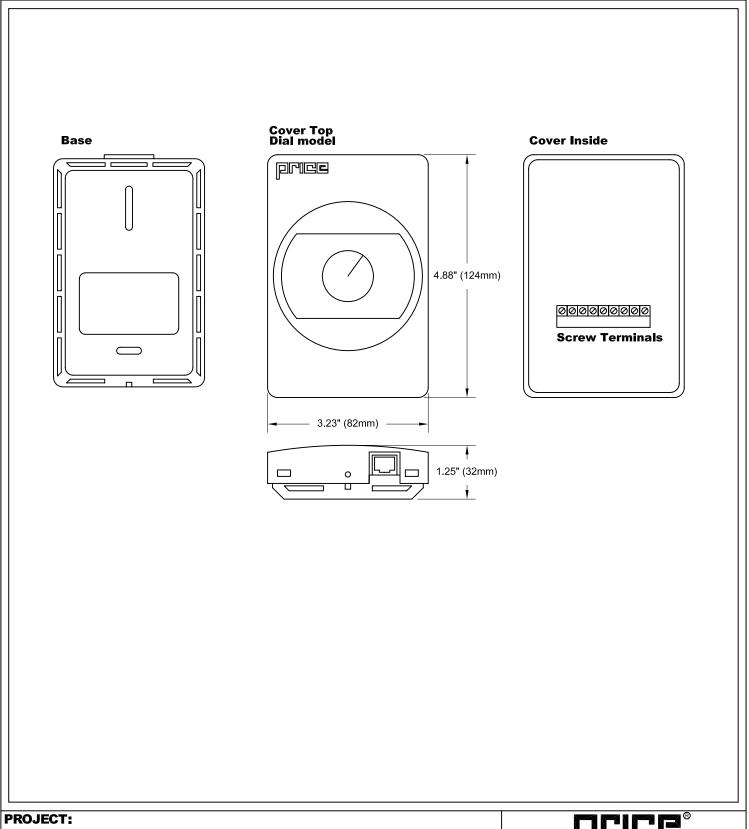
PROJECT:			Price [®]	
ENGINEER:		SC No	LGB PIC DDC	
CUSTOMER:		260546	PRESSURE DEPENDENT HEAT/COOL CHANGEOVER	
SUBMITTAL DATE:	SPEC. SYMBOL:	2017/09/06	0-10V ANALOG REHEAT	

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PRICE CONTROLLING T-STAT DIMENSIONAL DRAWING

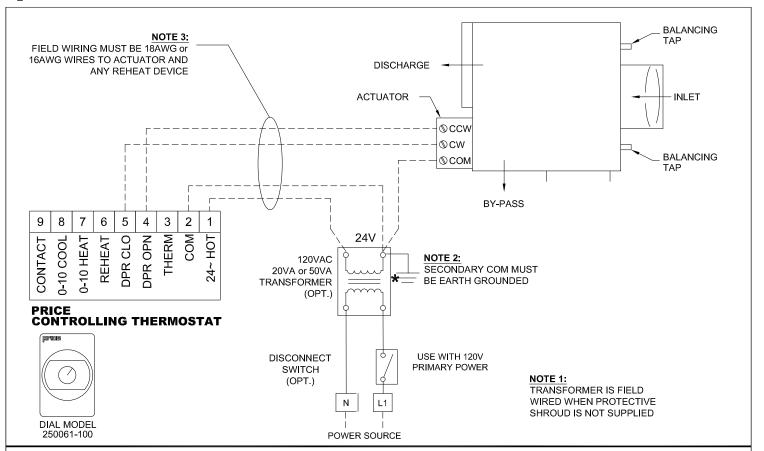
Control Sequence Number



PROJECT:			PLIEE.
ENGINEER:			LGB
CUSTOMER:		xxx	
SUBMITTAL DATE:	SPEC. SYMBOL:	12/14/2007	



Control Sequence Number 2500



LEGEND

---- FIELD ELECTIRCAL WIRING

Balancing Procedure:

- 1. Open the dampers of all supply outlets on the discharge duct from the terminal unit.
- 2. Adjust the room thermostat so that 100 % of the air from terminal unit is delivered to the room.
- 3. Adjust the inlet damper of the terminal unit to provide the required total amount of air.
- 4. Starting with the outlet the furthest away, adjust the damper of each air outlet to the required air volumes.
- 5. Take a static pressure reading using the dual pressure taps on the inlet panel (to obtain an average reading, link the two pressure taps together using two **equal** lengths of tubing connected by a "T").
- 6. Adjust the room thermostat to provide 100 % by-pass air flow (or the minimum air volume to the room, if required).
- 7. Position the by-pass sliding damper so that the static pressure reading obtained in step **5** remains unchanged.
- 8. Readjust the room thermostat to its operating set point.

Sequence of Operation -- Direct acting, pressure dependent arrangement for cooling applications.

The PCT thermostat shall use its built in PI (proportional & integral) to control the damper based on the demand in the space for both heating and cooling operations.

On a rise in room temperature, the thermostat energizes the actuator. The actuator slowly rotates the damper shaft counter-clockwise to increase the cold air to the room.

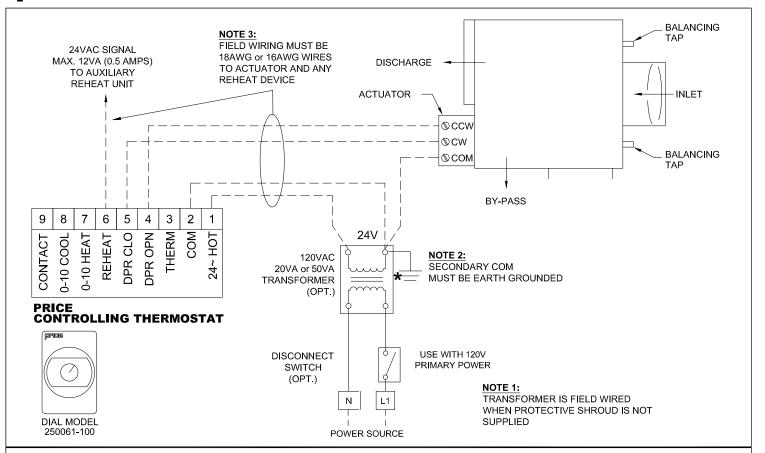
On a fall in room temperature the thermostat reverses the above action. The actuator slowly rotates the damper shaft clockwise to decrease cold air to the room.

PROJECT:		arice [®]
ENGINEER:		LGB 24V Floating Actuator
CUSTOMER:		Clg. 220005 Low Pressure By-Pass
SUBMITTAL DATE:	SPEC. SYMBOL:	Pressure Dependent 2019/11/06 PCT-D THERMOSTAT

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Control Sequence Number 2501



LEGEND

————— FIELD ELECTRICAL WIRING

Balancing Procedure:

- 1. Open the dampers of all supply outlets on the discharge duct from the terminal unit.
- 2. Adjust the room thermostat so that 100 % of the air from terminal unit is delivered to the room.
- 3. Adjust the inlet damper of the terminal unit to provide the required total amount of air.
- 4. Starting with the outlet the furthest away, adjust the damper of each air outlet to the required air volumes.
- 5. Take a static pressure reading using the dual pressure taps on the inlet panel (to obtain an average reading, link the two pressure taps together using two **equal** lengths of tubing connected by a "T").
- 6. Adjust the room thermostat to provide 100 % by-pass air flow (or the minimum air volume to the room, if required).
- 7. Position the by-pass sliding damper so that the static pressure reading obtained in step 5 remains unchanged.
- 8. Readjust the room thermostat to its operating set point.

Sequence of Operation -- Direct acting, pressure dependent arrangement for cooling applications with 1 stage of reheat or perimeter heating.

The PCT thermostat shall use its built in PI (proportional & integral) to control the damper based on the demand in the space for both heating and cooling operations.

Cool supply air: On a rise in room temperature, the thermostat energizes the actuator. The actuator slowly rotates the damper shaft counter-clockwise to increase the cold air to the room.

On a fall in room temperature the thermostat reverses the above action. The actuator slowly rotates the damper shaft clockwise to decrease cold air to the room. If the room temperature continues to fall, the thermostat energizes a control relay for the reheat coil or the perimeter reheat.

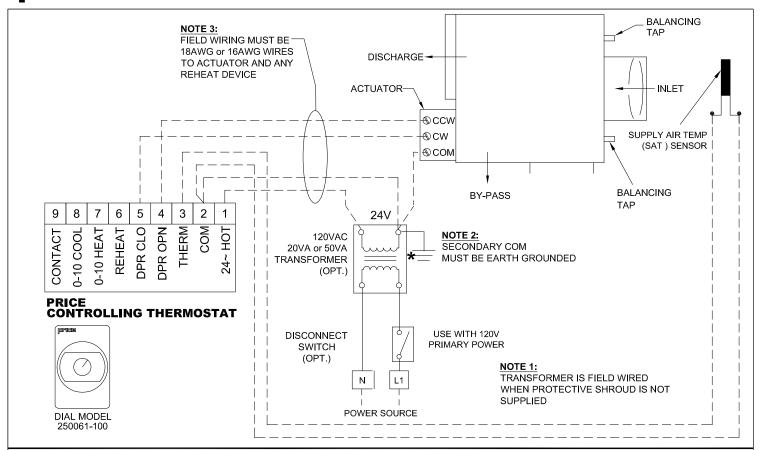
Note: When an electric duct reheat coil is installed, the minimum air volume must maintain or exceed the minimim required face velocity as indicated on the electric reheat coil nameplate and any pressure differential or airflow switch that is being used. Minimum airflow is set with adjustable end stops on the actuator.

PROJECT:		F		
ENGINEER:		\$E VB	LGB 24V Floating Actuator	
CUSTOMER:		220006	Clg., 1 Stage Reheat Low Pressure By-Pass	
SUBMITTAL DATE:	SPEC. SYMBOL:	2019/11/08	Pressure Dependent PCT-D THERMOSTAT	

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Control Sequence Number 2502



LEGEND

————— FIELD ELECTRICAL WIRING

Balancing Procedure:

- 1. Open the dampers of all supply outlets on the discharge duct from the terminal unit.
- 2. Adjust the room thermostat so that 100 % of the air from terminal unit is delivered to the room.
- 3. Adjust the inlet damper of the terminal unit to provide the required total amount of air.
- 4. Starting with the outlet the furthest away, adjust the damper of each air outlet to the required air volumes.
- 5. Take a static pressure reading using the dual pressure taps on the inlet panel (to obtain an average reading, link the two pressure taps together using two **equal** lengths of tubing connected by a "T").
- 6. Adjust the room thermostat to provide 100 % by-pass air flow (or the minimum air volume to the room, if required).
- 7. Position the by-pass sliding damper so that the static pressure reading obtained in step **5** remains unchanged.
- 8. Readjust the room thermostat to its operating set point.

Sequence of Operation -- Direct acting, pressure dependent arrangement for automatic cooling-heating changeover applications.

The PCT thermostat uses the Dynamic Neutral Mode by default. When the supply air (SAT) is 2 Deg C. below the room temperature, the mode is considered to be in cooling, when the supply air is 2 Deg. C. above the room temperature, the mode is considered to be in heating.

Cool supply air: On an increase in space temperature the controller regulates the actuator to rotate the sliding gate damper counter-clockwise to increase the flow of cool air. On an increase of space temperature greater than the cooling proportional band, the damper poistion is maintained at its pre-selected maximum setting.

On a decrease in space temperature the controller regulates the actuator to rotate the sliding gate damper clockwise to 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 rotate the sliding gate damper counter-clockwise to 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.

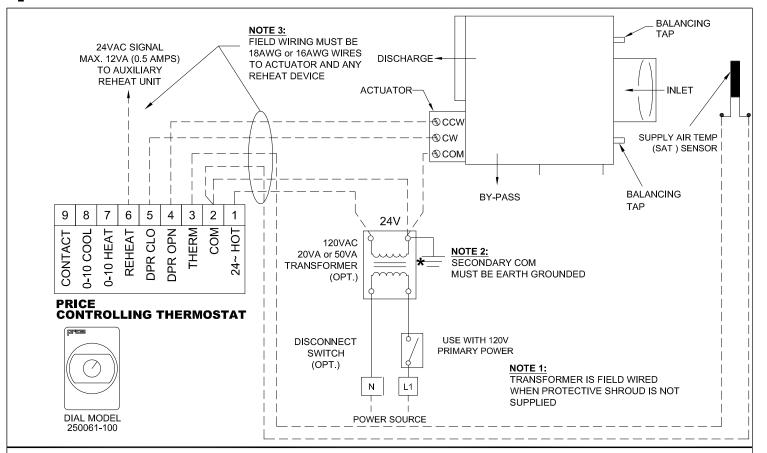
On an increase in space temperature the controller regulates the actuator to rotate the sliding gate damper clockwise to reduce the flow of warm air. If the space temperature increases above the heating proportional band, the damper position is maintained at the pre-selected minimum setting.

PROJECT:			Price [®]	
ENGINEER:		E PB	LGB 24V Floating Actuator	
CUSTOMER:		220007	Clg Htg. Changeover Low Pressure By-Pass	
SUBMITTAL DATE:	SPEC. SYMBOL:	2019/11/08	Pressure Dependent PCT-D THERMOSTAT	

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Control Sequence Number 2503



LEGEND

— — — — FIELD ELECTRICAL WIRING

Balancing Procedure:

- Open the dampers of all supply outlets on the discharge duct from the terminal unit.
- 2. Adjust the room thermostat so that 100% of the air from terminal unit is delivered to the room
- 3. Adjust the inlet damper of the terminal unit to provide the required total amount of air.
- 4. Starting with the outlet the furthest away, adjust the damper of each air outlet to the required air volumes.
- 5. Take a static pressure reading using the dual pressure taps on the inlet panel (to obtain an average reading, link the two pressure taps together using two **equal** lengths of tubing connected by a "T").
- 6. Adjust the room thermostat to provide 100% by-pass air flow (or the minimum air volume to the room, if required).
- 7. Position the by-pass sliding damper so that the static pressure reading obtained in step 5 remains unchanged.
- 8. Readjust the room thermostat to its operating set point.

Sequence of Operation – Direct acting, pressure dependent arrangement for automatic cooling-heating changeover applications with 1 stage of reheat or perimeter heating.

The PCT thermostat uses the Dynamic Neutral Mode by default. When the supply air (SAT) is 2 Deg C. below the room temperature, the mode is considered to be in cooling, when the supply air is 2 Deg. C. above the room temperature, the mode is considered to be in heating.

Cool supply air: On an increase in space temperature the controller regulates the actuator to rotate the sliding gate damper counter-clockwise to increase the flow of cool air. On an increase of space temperature greater than the cooling proportional band, the damper poistion is maintained at its pre-selected maximum setting.

On a decrease in space temperature the controller regulates the actuator to rotate the sliding gate damper clockwise to 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 rotate the sliding gate damper counter-clockwise to 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 rotate the sliding gate damper clockwise to 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 reheat output will energize to send 24VAC to a reheat device. Additionally, the 0-10VDC output can be used to send a modulating signal to a reheat device.

PROJECT:		Price [®]
ENGINEER:		LGB 24V Floating Actuator
CUSTOMER:		ClgHtg. c/o, 1 Stage Reheat Low Pressure By-Pass
SUBMITTAL DATE:	SPEC. SYMBOL:	Pressure Dependent 2019/11/08 PCT-D THERMOSTAT

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