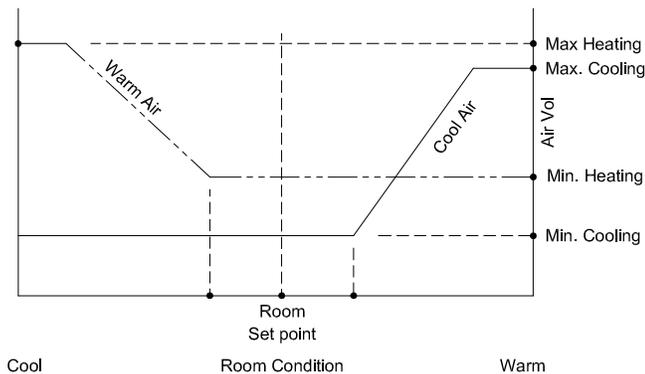


LEGEND

- 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:

CUSTOMER:

SUBMITTAL DATE:

SPEC. SYMBOL:

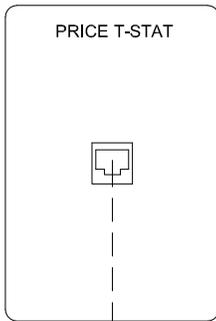
PRICE[®]

[Handwritten Signature]

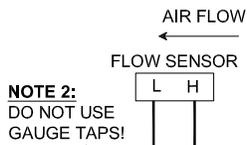
264666

2019/03/19

**SINGLE DUCT
PIC-SD DDC**
PRESSURE INDEPENDENT
HEAT/COOL C/O OR COOLING ONLY
NO LOCAL REHEAT CONTROL
FACTORY WIRED

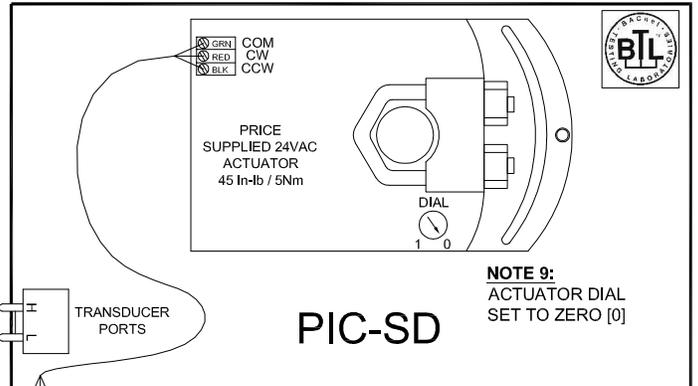


- NOTE 1:**
T-STAT PROVIDED BY PRICE. CAT-5 PLENUM RATED 35ft CABLE FOR TSTAT IS OPTIONAL.
- NOTE 3:**
SEVERAL T-STAT OPTIONS AVAILABLE (BLANK FACE, DIAL ADJUST, LCD, WIRELESS BASE, ETC.)
- NOTE 4:**
XFORMER PROVIDED AS STANDARD AND INSTALLED WITH HEATER
- NOTE 5:**
XFORMER SECONDARY COM MUST BE EARTH GROUNDED
- NOTE 6:** USE ONLY LIMITED POWER SOURCE LPS RATED 100VA MAX
- NOTE 7:**
WIRES FOR BINARY HEAT ARE PLENUM RATED CABLES FOR 24VAC POWER AND CONTROL CIRCUITS - MAX 10VA PER BINARY OUTPUT
*STAGE 2 IS OPTIONAL



NOTE 2:
DO NOT USE GAUGE TAPS!

SUPPLY AIR TEMPERATURE (SAT) SENSOR (OPT. REQUIRED FOR HCCO) 250000-050



NOTE 9:
ACTUATOR DIAL SET TO ZERO [0]

- +24V HOT 1
- 24V COM 2
- 1ST STAGE 3
- 2ND STAGE 4

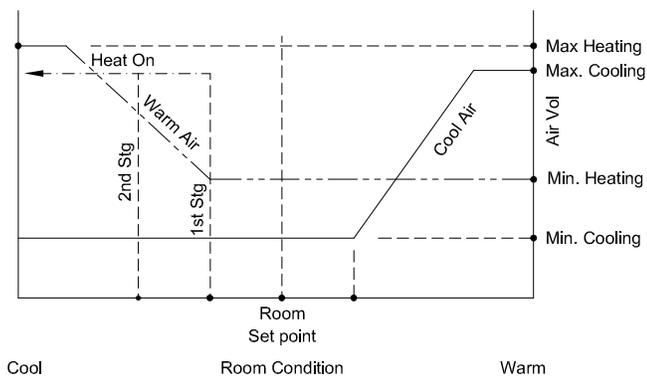
NOTE 8:
BACnet MS/TP WIRING BY OTHERS (+, -, NETCOM) NETCOM MUST BE WIRED.

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 further decreases, the 2nd stage of reheat will energize.

PROJECT:

ENGINEER:

CUSTOMER:

SUBMITTAL DATE:

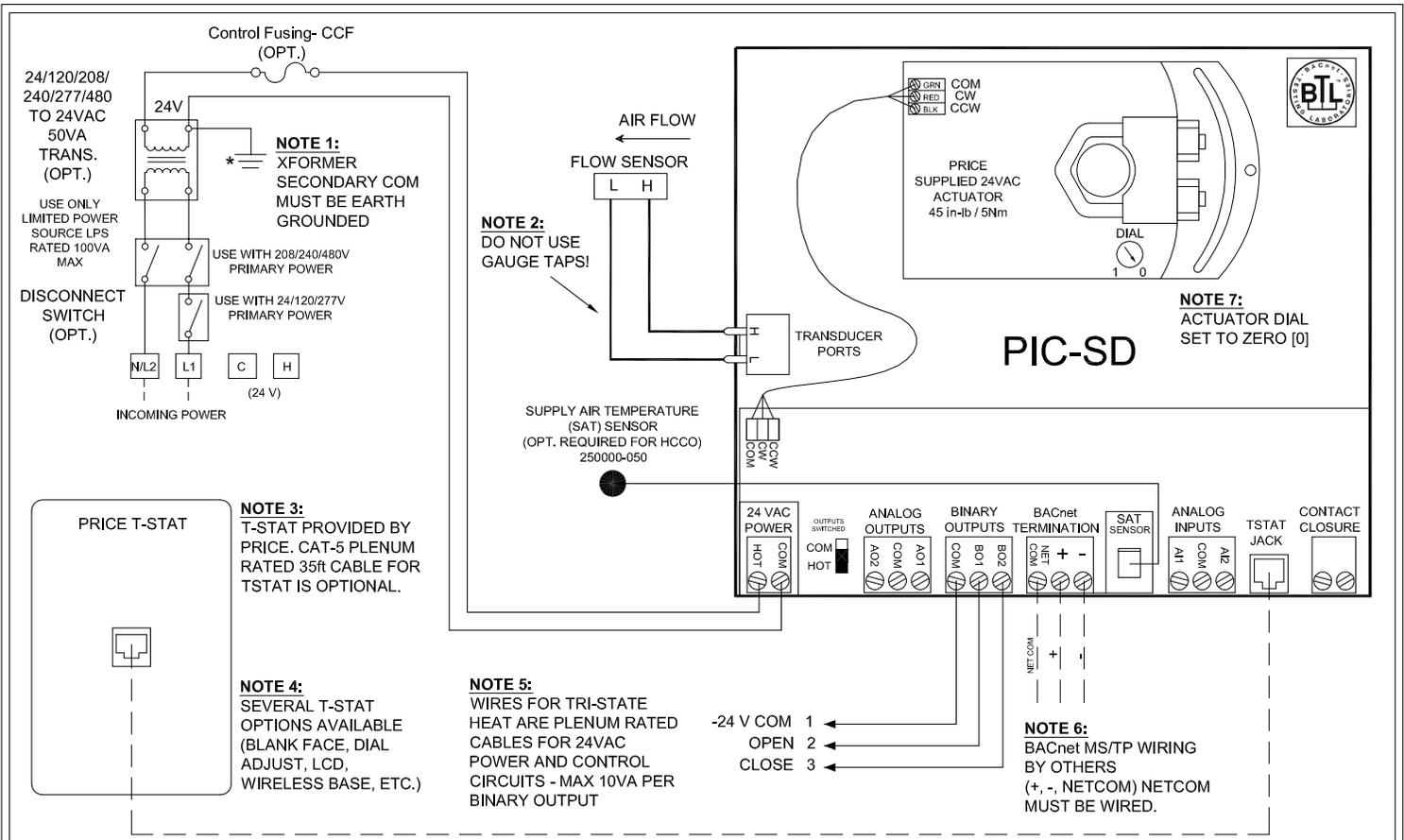
SPEC. SYMBOL:

**SINGLE DUCT
PIC-SD DDC**

PRESSURE INDEPENDENT
HEAT/COOL C/O OR COOLING ONLY
WITH UP TO 2 STG BINARY HEAT
FACTORY WIRED

264667

2019/03/19

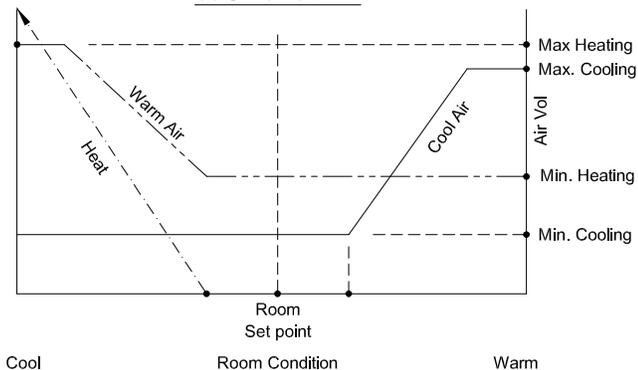


LEGEND

- 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:

CUSTOMER:

SUBMITTAL DATE:

SPEC. SYMBOL:

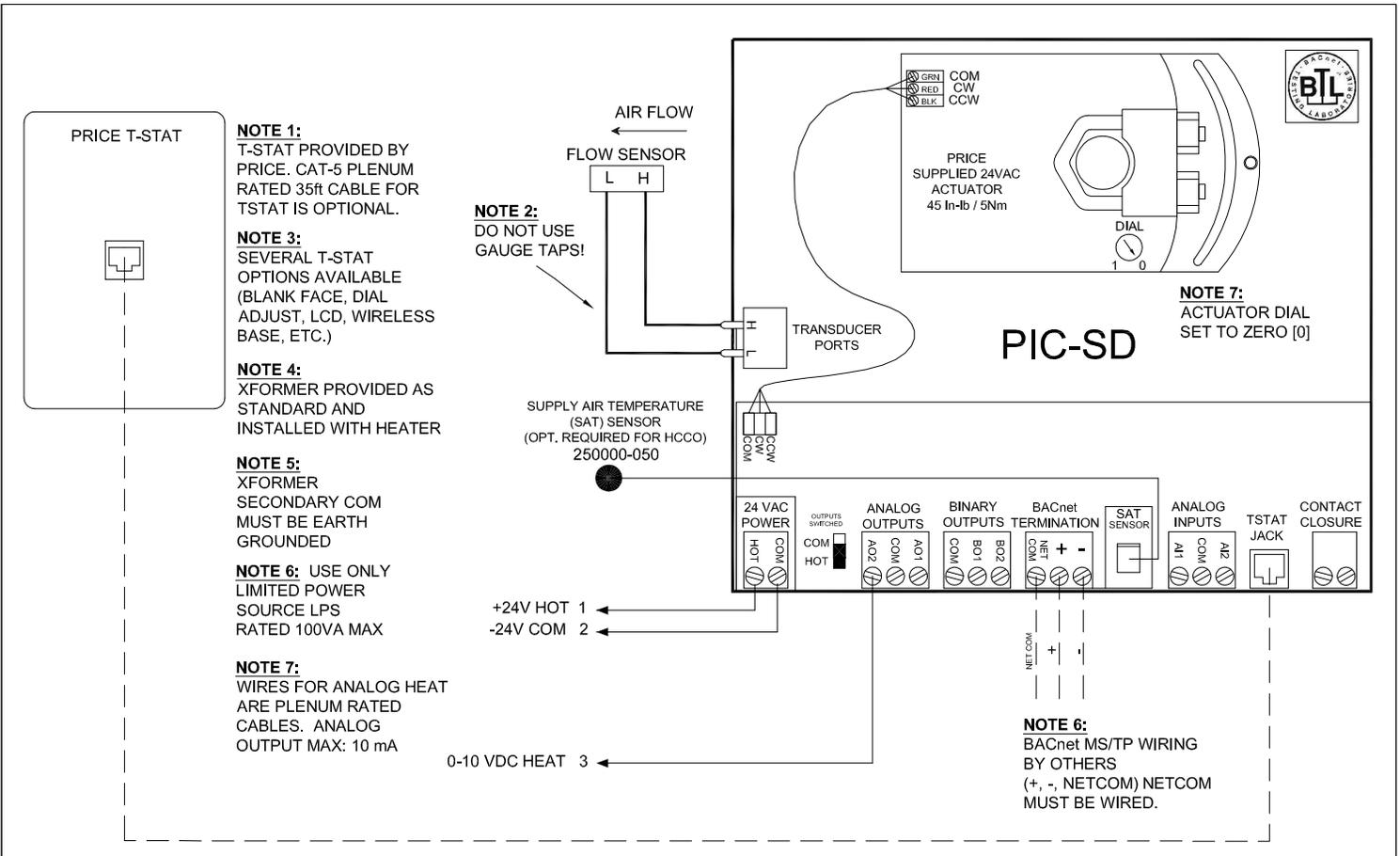


**SINGLE DUCT
PIC-SD DDC**

PRESSURE INDEPENDENT
HEAT/COOL C/O OR COOLING WITH
TRI-STATE MODULATING REHEAT
FACTORY WIRED

264668

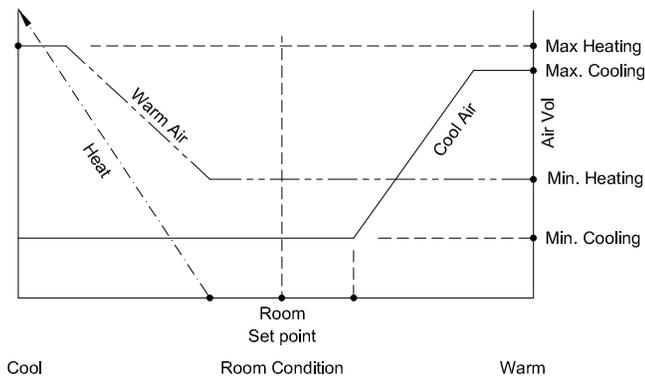
2019/03/19



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:

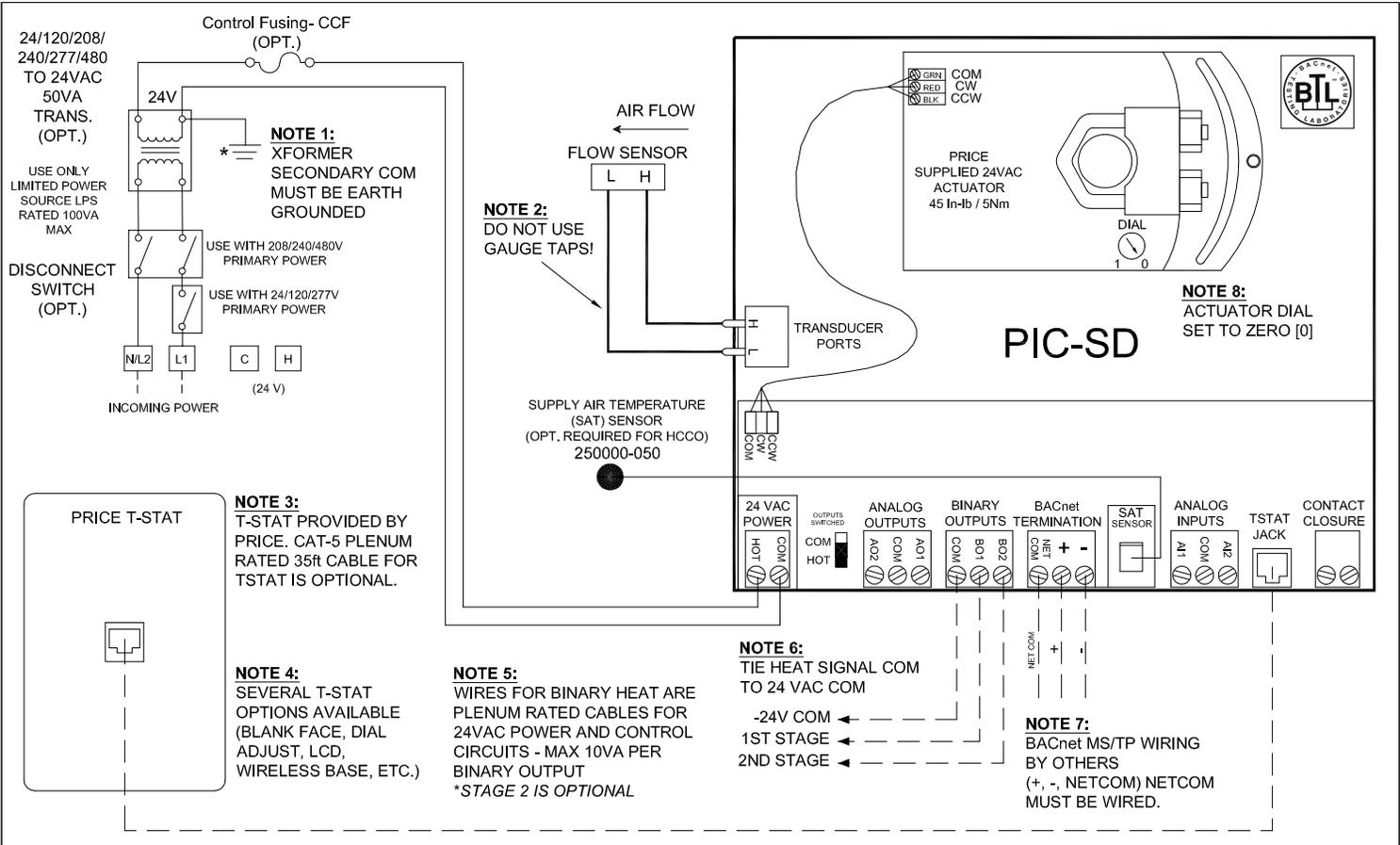
ENGINEER:

CUSTOMER:

SUBMITTAL DATE:

SPEC. SYMBOL:

	SINGLE DUCT PIC-SD DDC
264669	PRESSURE INDEPENDENT HEAT/COOL C/O OR COOLING WITH ANALOG ELECTRIC REHEAT FACTORY WIRED
2019/03/19	

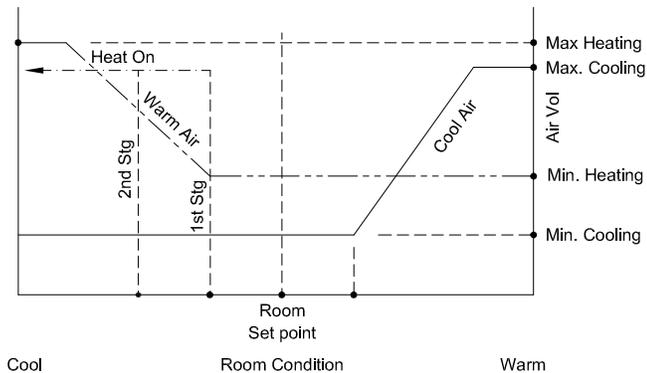


LEGEND

- 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 further decreases, the 2nd stage of reheat will energize.

PROJECT:

ENGINEER:

CUSTOMER:

SUBMITTAL DATE:

SPEC. SYMBOL:

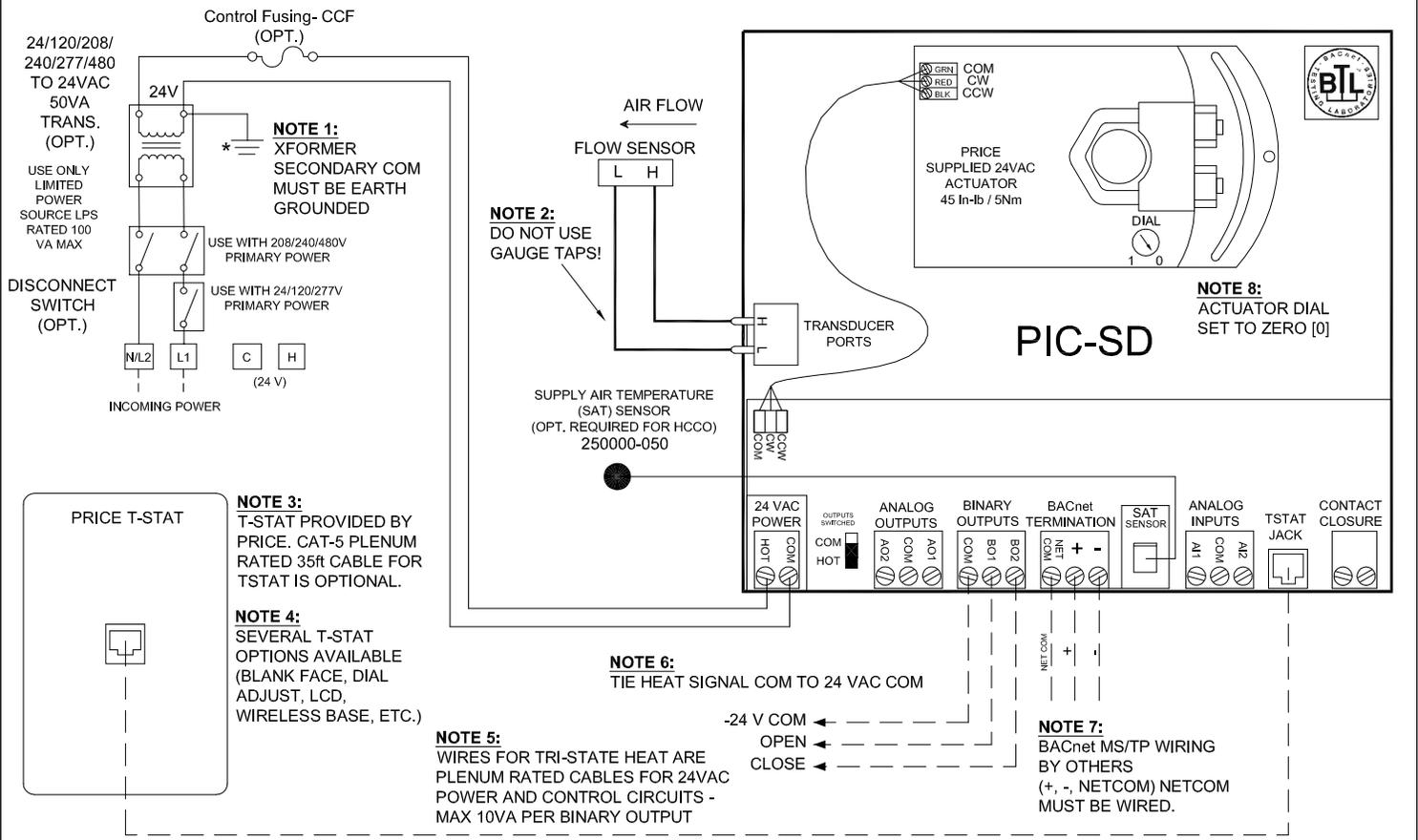


**SINGLE DUCT
PIC-SD DDC**

PRESSURE INDEPENDENT
HEAT/COOL C/O OR COOLING WITH
UP TO 2 STAGES OF REHEAT
FIELD WIRED

264670

2019/03/19

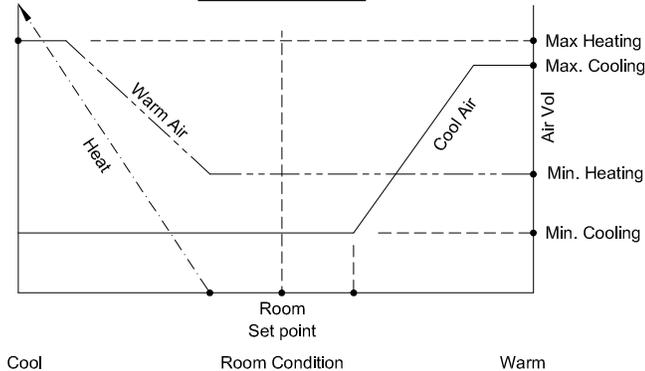


LEGEND

- 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:

CUSTOMER:

SUBMITTAL DATE:

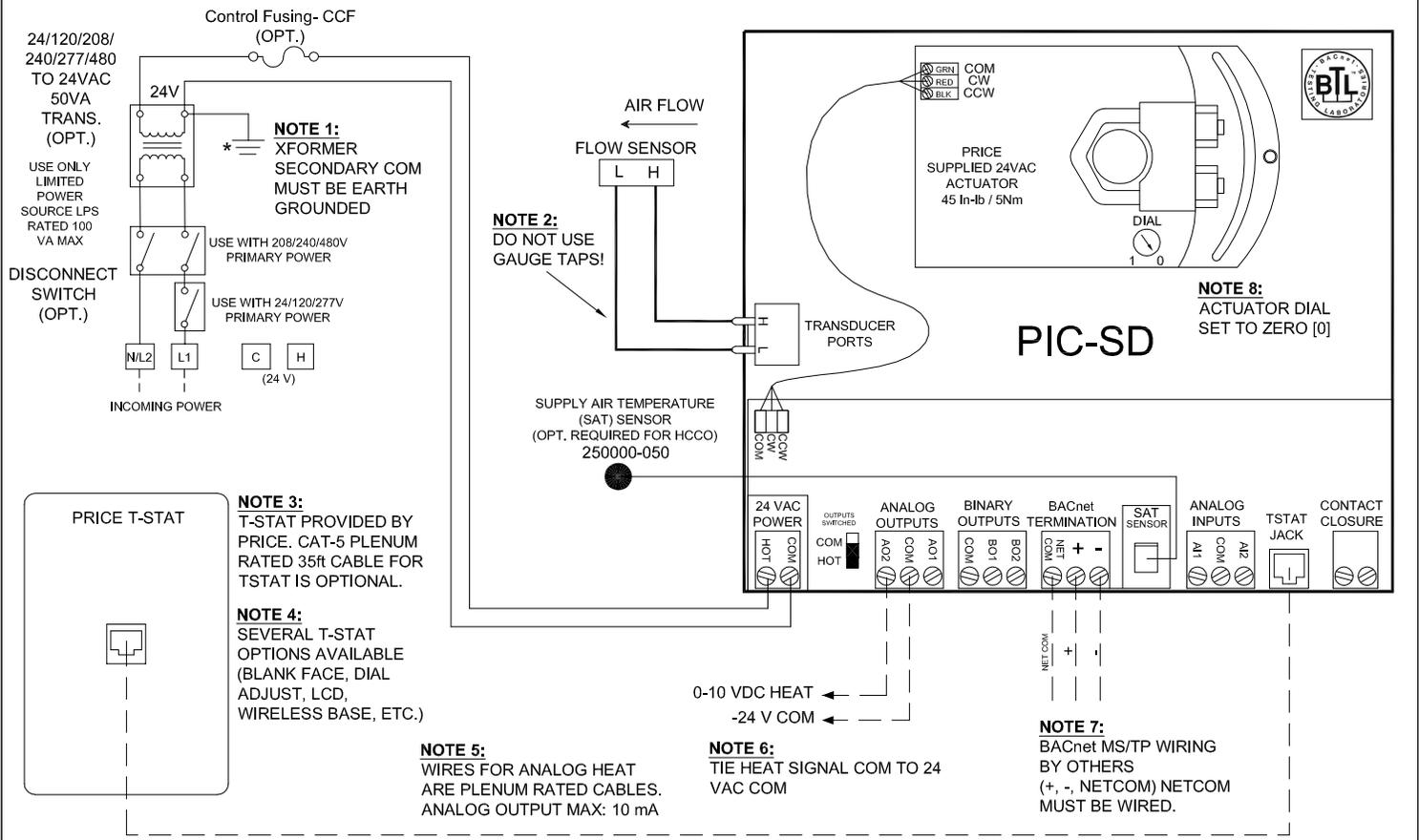
SPEC. SYMBOL:

<p>SINGLE DUCT PIC-SD DDC</p> <p>PRESSURE INDEPENDENT HEAT/COOL C/O OR COOLING WITH TRI-STATE MODULATING REHEAT FIELD WIRED</p>

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264671

2019/03/19

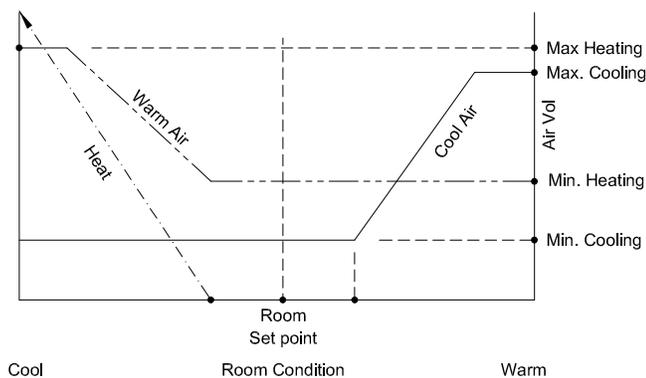


LEGEND

- 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:

CUSTOMER:

SUBMITTAL DATE:

SPEC. SYMBOL:

PRICE[®]

**SINGLE DUCT
PIC-SD DDC**

PRESSURE INDEPENDENT
HEAT/COOL C/O OR COOLING
WITH ANALOG ELECTRIC REHEAT
FIELD WIRED

264672

2019/03/19