**PCV & PIM DIGITAL CONTROLS**

**Control Sequence Number 1550**

**NOTE 1:**
24 VAC POWER SOURCE MUST BE FIELD WIRED IF OPTIONAL TRANSFORMER IS NOT PROVIDED.

**NOTE 2:**
SECONDARY COM MUST BE EARTH GROUNDED

**NOTE 3:**
MEASURE STATIC PRESSURE APPROXIMATELY 2/3 OF THE WAY DOWN THE MAIN DUCT.
LOW PORT (L) ON THE PRESSURE SENSOR MUST NOT BE OBSTRUCTED

**NOTE 4:**
STATIC PRESSURE SETPOINT IS FACTORY CALIBRATED TO 0.15 W.C.
IT CAN BE CHANGED IN THE FIELD USING EITHER:
1. BACnet FRONT END
2. PRICE USB LINKER INTERFACE
3. LCD-SETUP TOOL (OR ANY PIC/PRODIGY LCD T-STAT)

**NOTE 5:**
A CAT-5 BACNET NETWORK CABLE IS PROVIDED BY PRICE WITH EACH CONTROLLER ORDERED WITH THE BACNET OPTION

**NOTE 6:**
USE RUGGED JACKS FOR BACNET CONNECTION, OR 3-POSITION TERMINAL BLOCK FOR 3-WIRE CONNECTION (+, -, NETCOM) NETCOM MUST BE WIRED.

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**Legend:**
- **FIELD INSTALLED SENSOR TUBING**
- **FACTORY ELECTRICAL WIRING**
- **FIELD ELECTRICAL WIRING**

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**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)

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**PROJECT:**

**ENGINEER:**

**CUSTOMER:**

**SUBMITTAL DATE:**

**SPEC. SYMBOL:**

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**Control Sequence Number 1551**

**NOTE 1:**
24 VAC POWER SOURCE MUST BE FIELD WIRED IF OPTIONAL TRANSFORMER IS NOT PROVIDED. TRANSFORMER SECONDARY COM MUST BE EARTH GROUNDED.

**NOTE 2:**
SECONDARY COM MUST BE EARTH GROUNDED.

**NOTE 3:**
MEASURE STATIC PRESSURE APPROXIMATELY 2/3 OF THE WAY DOWN THE DUCT.

**NOTE 4:**
STATIS PRESSURE SETPOINT IS FACTORY CALIBRATED TO 0.15" W.C.
IT CAN BE CHANGED IN THE FIELD USING EITHER:
1. BACnet FRONT END
2. PRICE USB LINKER INTERFACE
3. LCD-SETUP TOOL (OR ANY PIC/PRODIGY LCD T-STAT)

**NOTE 5:**
A CAT-5 BACNET NETWORK CABLE IS PROVIDED BY PRICE WITH EACH CONTROLLER ORDERED WITH THE BACNET OPTION

**NOTE 6:**
USE RJ45 JACKS FOR BACNET CONNECTION, OR 3 POSITION TERMINAL BLOCK FOR 3-WIRE CONNECTION (+, -, NETCOM). NETCOM MUST BE WIRE.

**Legend:**
- FIELD INSTALLED SENSOR TUBING
- FACTORY ELECTRICAL WIRING
- FIELD ELECTRICAL WIRING

**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).