RED LED BLINK SEQUENCE CODE (ON DIFFUSER)	
NO BLINK	NO POWER TO DIFFUSER
1 BLINK	POOR CONNECTION TO DISIO THERMOSTAT
2 BLINKS	CLOSED - NORMAL OPERATION
3 BLINKS	NORMAL OPERATION
4 BLINKS	OPEN - NORMAL OPERATION
5 BLINKS	MOTOR SWITCH ERROR - DAMPER AT 50%

TO ADDITIONAL PRODIGY DRONES (UPTO 5)

POWER IN FROM OPT. APM/PPM POWER MODULE

NOTE 1: IF USING ADVANTAGE POWER MODULE (APM) OR PRICE POWER MODULE (PPM), CONNECT POWER CABLE INTO RJ-12 DRONE JACK

SAT PROBE (REQ'D FOR HCCO) - FACTORY MOUNTED ON DIFFUSER

NOTE 7: OPTIONAL CO2 SENSOR & RELATIVE HUMIDITY [RH] SENSOR MONITORING ONLY OVER BACnet

PRICE PRODIGY DRONE DIFFUSER

24VAC COM SIG

RJ-45 BREAKOUT BOARD

24VAC PWR H C

OPTIONAL 0-10 VDC HEAT O/P
OPTIONAL 24 VAC HEAT O/P

NOTE 2: OPTIONAL HEAT OUTPUT FOR FIELD CONNECTION AND CONTROL OF HEAT EQUIPMENT BY OTHERS

PWR IN - 24 VAC HOT
PWR IN - 24 VAC COM

NOTE 4: 2 POSITION, 24 VAC POWER TERMINAL BLOCK ONLY PROVIDED IF USING FIELD SOURCED 24 VAC POWER, AND YOU ARE NOT USING AN APM/PPM, OR A FACTORY PROVIDED AND MOUNTED 24 VAC TRANSFORMER. TRANSFORMER SECONDARY COM MUST BE EARTH GROUNDED!

FACTORY SUPPLIED 35' CAT 5 CABLE

FRONT

USB-C SETUP

FROM LAPTOP WITH DISIO SETUP SOFTWARE

SIGNAL	DAMPER POSITION
0-2 VDC	NO SIGNAL, DAMPER AT MIN POSITION
2-10 VDC	PROPORTIONAL MODULATION, 2 VDC = MIN 10 VDC = MAX

WIRING CONNECTION CHART		
RJ-45 BoB PIN #	DISIO T-STAT PIN #	FUNCTION
1	24 HOT	24 VAC POWER HOT
2	24 COM	24 VAC POWER COM
3	O/P 1	0-10 SIG TO DIFFUSER
4	O/P 2	0-10 VDC HEAT SIG (FIELD USE)
5	O/P 3	24 VAC BIN HEAT SIG (FIELD USE)
6	I/P 1	DUCT SUPPLY AIR TEMP
7	I/P 2	NOT USED
8	I/P 3	NOT USED

*FACTORY WIRED - FOR REFERENCE ONLY

NOTE 3: FOR BALANCING, OVERRIDE THE DAMPER TO THE COOL MAX POSITION BY PRESSING AND HOLDING THE MIDDLE BUTTON FOR 5 SECONDS, AND ENTERING DOWN, UP, UP, DOWN. THE DAMPER WILL STAY IN THIS POSITION UNTIL ANY BUTTON IS PRESSED. ALTERNATIVELY BACNET POINT MV6 CAN BE WRITTEN TO TO ENABLE THE BALANCING OVERRIDE.

BACK OF DISIO T-STAT WITH QUICK CONNECT FEATURE

MAIN BACnet

NOTE 5: PLUG FACTORY SUPPLIED 35' CAT 5 CABLE INTO THE FACTORY WIRED RJ-45 BREAKOUT BOARD IN THE TERMINAL UNIT CONTROLS ENCLOSURE, AND PLUG THE OTHER END OF THE CAT 5 CABLE INTO THE DISIO QUICK CONNECT JACK LABELED 'MAIN'.

NOTE 6: REFER TO SEQ DWG DX-099 FOR BACNET WIRING DETAILS

LEGEND
———————— FACTORY WIRING
– – – – – – FIELD WIRING

CONTROL GRAPH

Warm Air
Cool Air
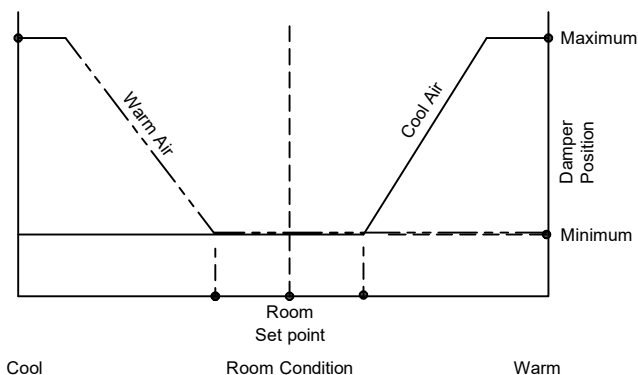Damper Position
Maximum
Minimum
Room Set point
Cool
Room Condition
Warm

Sequence of Operation -- PPD with Disio Display Thermostat Controller

On power up the damper will calibrate fully-open for 2 minutes.

Cool supply air: On an increase in space temperature the T-Stat and Prodigy regulate the the diffuser's air damper open to 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 T-Stat and Prodigy regulate the diffuser's air damper closed 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 T-Stat and Prodigy regulate the diffuser's air damper open 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 T-Stat and Prodigy regulate the diffuser's air damper 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.

Visit disio.io/setup for free DISIO Setup Software compatible with Windows.

PROJECT:		PRICE®
ENGINEER:		**DISIO DISPLAY THERMOSTAT PRODIGY DISIO CONTROL** 5 DRONES MAX FROM DISIO DISPLAY SIGNAL
CUSTOMER:	274945	
SUBMITTAL DATE:	SPEC. SYMBOL:	23/09/2024

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NOTE 1:
ON THE 35' CAT 5 CABLES IN THE CEILING SPACE:
BACNET + RIDES ON ORANGE/WHITE STRIPE (PIN 1)
BACNET - RIDES ON ORANGE SOLID (PIN 2)
NET COM RIDES ON BROWN AND BROWN COMPLIMENT TOGETHER (PINS 7 & 8)

FROM PREVIOUS DEVICE

35 FOOT CAT 5 CABLE

35 FOOT CAT 5 CABLE

TO NEXT DEVICE

NOTE 2:
RJ45 SPLITTER HAS SPECIAL INTERNAL ROUTING TO BE ABLE TO CARRY ON BACnet DAISY CHAINS FROM THE INPUT CAT 5 CABLE, DOWN THE WALL TO THE DISIO T-STAT AND BACK UP TO THE OUTPUT CAT 5 CABLE AND ON TO THE NEXT DEVICE. DO NOT USE OFF THE SHELF RJ45 SPLITTERS.

SPECIAL RJ45 SPLITTER

CEILING SPACE

RJ45 CONNECTOR

─── TOP OF WALL ───

12 FOOT CAT 5 CABLE

NOTE 3: PRICE USES 3 WIRE BACNET MS/TP WITH A NET COM WIRE (DIFFERENT THAN A SHEILD) AS THE THIRD WIRE.
NET COM MUST BE WIRED!!

FAILURE TO DO SO WILL RESULT IN AN INOPERABLE, OR UNRELIABLE NETWORK.

DISIO T-STAT

HOT - 24 VAC PWR	COM - 24 VAC PWR	COM - SPARE	COM - SPARE	UNIV O/P 1	UNIV O/P 2	UNIV O/P 3	UNIV O/P 4
H	C	C	C	O1	O2	O3	O4

+	-	NET C	C	I1	I2	I3	I4
BACnet +	BACnet -	BACnet NET COM	COM - SPARE	UNIV I/P 1	UNIV I/P 2	UNIV I/P 3	UNIV I/P 4

INSIDE BACKPLATE

KIT CONTENTS	
QTY	ITEM
1	12 FOOT CAT 5 CABLE
1	35 FOOT CAT 5 CABLE
1	SPECIAL RJ45 SPLITTER JACK

NOTE 4:
THIS KIT IS ONLY INTENDED FOR USE WITH DISIO THERMOSTATS WITH THE QUICK CONNECT BACKPLATE.

BACnet WIRING KIT INSTALLATION INSTRUCTION:

THIS KIT IS DESIGNED TO ALLOW THE DISIO DISPLAY THERMOSTAT TO BE INTEGRATED INTO A BACnet NETWORK WITH OTHER DISIO THERMOSTATS OR PRICE EQUIPMENT BY RUNNING PLUG AND PLAY CAT 5 CABLES THROUGH THE CEILING WITH THE ONLY HARDWIRING REQUIRED BEING AT THE DISIO THERMOSTAT BACKPLATE.

- TO BEGIN, RUN THE PROVIDED 12 FOOT CAT 5 CABLE DOWN THE WALL SO ONE END IS IN THE CEILING SPACE ABOVE THE WALL CAP. ON THE OTHER END, CUT THE RJ45 CONNECTOR OFF, STRIP BACK THE SHEATHING, AND STRIP ALL 8 CONDUCTORS TO WIRE INTO THE TERMINAL BLOCKS OF THE DISIO THERMOSTAT BACKPLATE. THE 12 FOOT CAT 5 CABLE WILL CARRY THE BACnet DAISY CHAIN DOWN THE WALL ON 4 CONDUCTORS TO THE DISIO T-STAT, AND BACK UP THE WALL ON THE OTHER 4 CONDUCTORS.

- WIRE IN THE 12' CABLE TO THE BACNET TERMINAL BLOCK AS FOLLOWS:

RJ45 PIN	COLOR	DISIO TERM LOCATION
1	OR/WHT STRIPE	+
2	ORANGE SOLID	-
3	GR/WHT STRIPE	+
4	BLUE SOLID	NET COM
5	BL/WHT STRIPE	NET COM
6	GREEN SOLID	-
7	BR/WHT STRIPE	NET COM
8	BROWN SOLID	NET COM

- CONNECT THE SPECIAL RJ45 SPLITTER JACK TO THE END OF THE 12 FOOT CAT 5 CABLE THAT WAS LEFT ABOVE THE CEILING. THE SPLITTER JACK WILL BE LABELED, BUT THE SIDE OF THE SPLITTER WITH ONLY ONE JACK INPUT CONNECTS TO THE 12 FOOT CAT 5 CABLE.

- FROM THERE, THE PROVIDED 35 FOOT CAT 5 CABLES CAN BE RUN THROUGH THE CEILING AND PLUGGED IN TO EITHER OF THE REMAINING 2 INPUT JACKS ON THE SPLITTER JACK TO TRANSMIT BACnet BETWEEN DEVICES.

NOTE 5: THE SPECIAL RJ45 SPLITTER JACK HAS SPECIAL ROUTING INTERNALLY TO BE ABLE TO CONTINUE THE DAISY CHAIN BY SIMPLY PLUGGING THE CAT 5 CABLE IN TO THE NEXT SPECIAL RJ45 SPLITTER OR PRICE DEVICE WITH AN RJ45 BACnet JACK. THIS DESIGN ALLOWS THE BACnet MS/TP TO RUN IN AN UNBROKEN DAISY CHAIN WITHOUT ANY TEES OR OTHER DISCOURAGED BACnet WIRING PRACTICES.
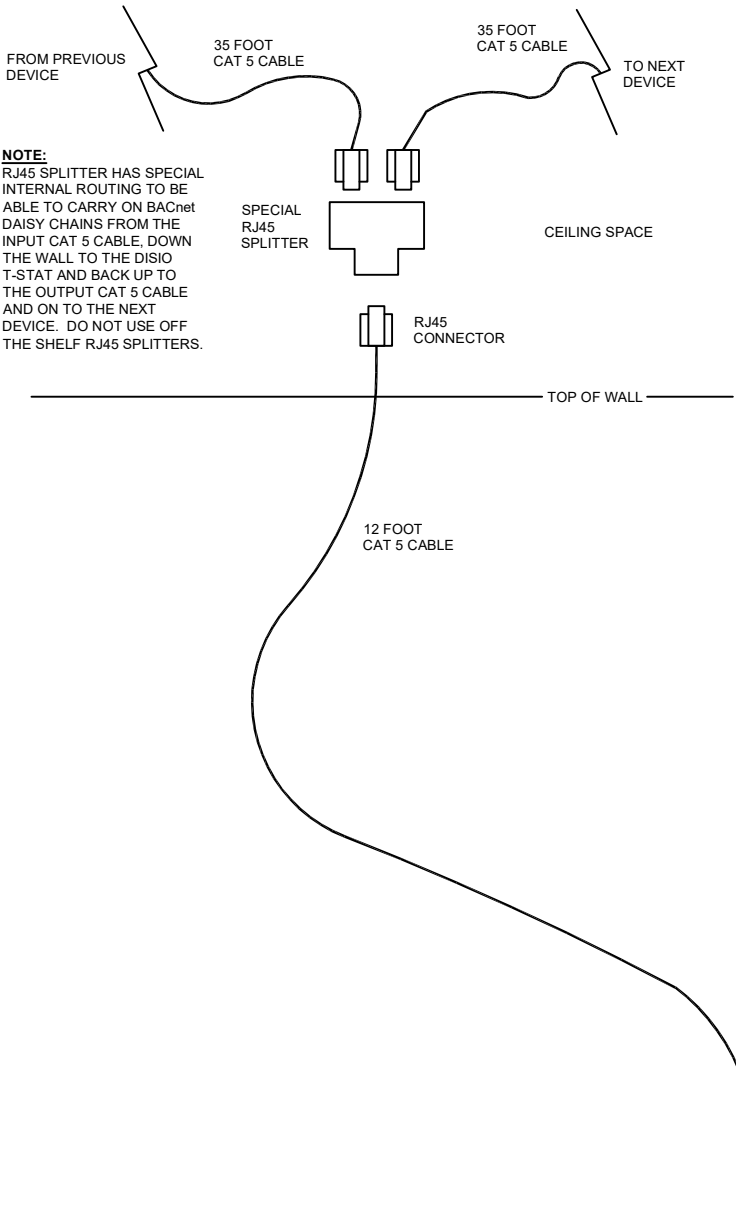
PROJECT:		PRICE®
ENGINEER:		DISIO DISPLAY THERMOSTAT BACNET WIRING WITH OPTIONAL BACNET WIRING KIT HARD WIRED
CUSTOMER:	278015	
SUBMITTAL DATE:	SPEC. SYMBOL:	2025/03/07

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BACnet WIRING KIT INSTALLATION INSTRUCTION:

THIS KIT IS DESIGNED TO ALLOW THE DISIO DISPLAY THERMOSTAT WITH THE QUICK CONNECT OPTION TO BE INTEGRATED INTO A BACnet NETWORK WITH OTHER DISIO THERMOSTATS OR PRICE EQUIPMENT WITHOUT THE NEED FOR HARDWIRING IN THE FIELD.

- TO BEGIN, RUN THE PROVIDED 12 FOOT CAT 5 CABLE DOWN THE WALL SO ONE END IS IN THE CEILING SPACE ABOVE THE WALL CAP. THE OTHER END WILL PLUG INTO THE BACnet JACK THE DISIO QUICK CONNECT PLATE ON THE BACK OF THE DISIO THERMOSTAT. THE 12 FOOT CAT 5 CABLE WILL CARRY THE BACnet DAISY CHAIN DOWN THE WALL ON 4 CONDUCTORS TO THE DISIO T-STAT, AND BACK UP THE WALL ON THE OTHER 4 CONDUCTORS.

- CONNECT THE SPECIAL RJ45 SPLITTER JACK TO THE END OF THE 12 FOOT CAT 5 CABLE THAT WAS LEFT ABOVE THE CEILING. THE SPLITTER JACK WILL BE LABELED, BUT THE SIDE OF THE SPLITTER WITH ONLY ONE JACK INPUT CONNECTS TO THE 12 FOOT CAT 5 CABLE.

- FROM THERE, THE PROVIDED 35 FOOT CAT 5 CABLES CAN BE RUN THROUGH THE CEILING AND PLUGGED IN TO EITHER OF THE REMAINING 2 INPUT JACKS ON THE SPLITTER JACK TO TRANSMIT BACnet BETWEEN DEVICES.

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FROM PREVIOUS DEVICE

35 FOOT CAT 5 CABLE

35 FOOT CAT 5 CABLE

TO NEXT DEVICE

NOTE:
RJ45 SPLITTER HAS SPECIAL INTERNAL ROUTING TO BE ABLE TO CARRY ON BACnet DAISY CHAINS FROM THE INPUT CAT 5 CABLE, DOWN THE WALL TO THE DISIO T-STAT AND BACK UP TO THE OUTPUT CAT 5 CABLE AND ON TO THE NEXT DEVICE. DO NOT USE OFF THE SHELF RJ45 SPLITTERS.

SPECIAL RJ45 SPLITTER

CEILING SPACE

RJ45 CONNECTOR

TOP OF WALL

12 FOOT CAT 5 CABLE

BACK OF DISIO STAT WITH QUICK CONNECT FEATURE

MAIN   BACnet

KIT CONTENTS	
QTY	ITEM
1	DISIO T-STAT C/W QUICK CONNECT BACKPLATE
1	12 FOOT CAT 5 CABLE
1	35 FOOT CAT 5 CABLE
1	SPECIAL RJ45 SPLITTER JACK

PROJECT:

ENGINEER:

CUSTOMER:

SUBMITTAL DATE:

SPEC. SYMBOL:

PRICE®

DISIO DISPLAY THERMOSTAT
BACNET WIRING
WITH OPTIONAL BACNET WIRING KIT

275812

2024/12/31

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