

USE ONLY LIMITED POWER SOURCE  
LPS RATED 100 VA MAX  
24 VAC TRANSFORMER INPUT  
10 VA + EXTERNAL LOADS

35mm x 7.5mm (height) DIN RAIL  
(11" length rail included)

10A FUSE MAXIMUM  
(MINI TYPE)

(2) BINARY INPUTS  
(DRY CONTACT CLOSURE)

(6) ANALOG INPUTS  
(10kOhm Type 'J' Thermistor)

D.A.T. Probe  
(Discharge Air  
Temperature)

R.A.T. Probe  
(Return Air  
Temperature)

ANALOG  
INPUTS  
(0-10 VDC)

BACnet (MS/TP)  
Terminal Connections  
must be 3 wire +,  
-, NETCOM

\*NETCOM wire MUST  
be connected at  
each device\*  
OR

RJ45 BACnet Connection  
BACnet COMM Status LEDs

\*\*\*POLARITY CRITICAL\*\*\*  
\*\*MAINTAIN POLARITY ON BOTH\*\*  
\*\*24VAC POWER AND NETWORK\*\*

**WIRE LEGEND**

- CAT5-e CABLE
- RJ12 CABLE
- 24VAC CONTROL WIRE



**Output Config**

Standard	Custom (Field Set)
B01 G (Fan)	<input type="checkbox"/>
B02 Y1 (Cool1)	<input type="checkbox"/>
B03 Y2 (Cool2)	<input type="checkbox"/>
B04 Y3 (Cool3)	<input type="checkbox"/>
B05 Y4 (Cool4)	<input type="checkbox"/>
B06 W1 (Heat1)	<input type="checkbox"/>
B07 W2 (Heat2)	<input type="checkbox"/>
B08 W3 (Heat3)	<input type="checkbox"/>
B09 W4 (Heat4)	<input type="checkbox"/>
B010 O (CoolEn)	<input type="checkbox"/>
A01 Fan 0-10	<input type="checkbox"/>
A02 Heat 0-10	<input type="checkbox"/>
A03 Cool (0-10)	<input type="checkbox"/>
A04 DMD 0-10	<input type="checkbox"/>

- B01 O 1
- B02 O 2
- B03 O 3
- B04 O 4
- B05 O 5
- B06 O 6
- B07 O 7
- B08 O 8
- B09 O 9
- B010 O 10
- EXT.PWR
- SWITCH: OUT TYPE
- DN-24VAC
- UP-COM
- MID-EXT
- A01 O 1
- A02 O 2
- A03 O 3
- A04 O 4

(10) BINARY OUTPUTS  
(SELECTABLE AS 24 VAC / COM /  
MAX 0.5 AMPS EACH)  
EXTERNAL POWER MUST BE 24  
VAC MAX.

EXTERNAL POWER SOURCE FOR  
BINARY OUTPUTS

3-WAY SWITCH FOR BINARY OUTPUTS  
DOWN: INTERNAL 24VAC (DEFAULT)  
UP: COM  
MIDDLE: EXTERNAL POWER

(4) ANALOG OUTPUTS  
(0-10 VDC) (MAX 10mA EACH)

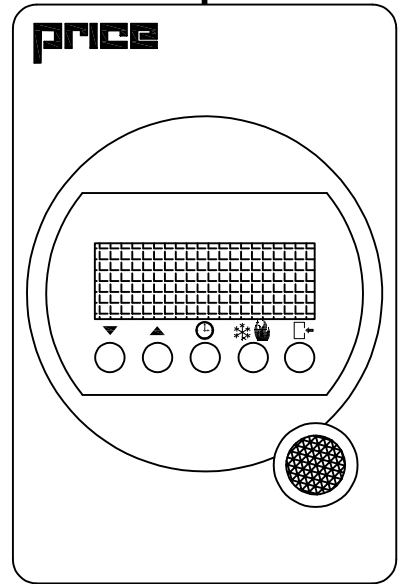
- T-STAT
- LINKER
- EXPANSION
- FUTURE EXPANSION

35FT  
PLENUM RATED  
CABLE, INCLUDED

PRTU T-STAT WITH  
MOTION SENSOR:

- Back lit 2 line 28  
character LCD
- Motion sensor
- Controller

(parameters can be  
adjusted via password  
protected service menu  
on t-stat)



ALL METRIC DIMENSIONS ( ) ARE SOFT CONVERTED. IMPERIAL DIMENSIONS ARE CONVERTED TO METRIC AND ROUNDED TO THE NEAREST MILLIMETER.

<b>PROJECT:</b>		<b>PRICE®</b>
<b>ENGINEER:</b>		
<b>CUSTOMER:</b>		<b>CONTROLS</b>
<b>SUBMITTAL DATE:</b>		PRICE ROOFTOP UNIT CONTROLLER PRTU 250000-900
<b>SPEC. SYMBOL:</b>		258516
		2024/04/05

**POWER REQUIREMENTS:**

- 24VAC, 47–63 Hz, 10VA (NOT INCLUDING OUTPUT LOADING)

**OPERATION AND STORAGE SPECIFICATIONS:**

- OPERATING: 10 DEG C TO 50 DEG C (50 DEG F TO 122 DEG C), 0–95% RH (NON-CONDENSING)
- STORAGE –30 DEG C TO 50 DEG C (–22 DEG F TO 122 DEG C), 0–95% RH (NON-CONDENSING)

**INPUTS:**

- [12] ANALOG INPUTS:
  - [6] 0–10 VDC INPUT, 20KOHM INPUT IMPEDANCE
  - [6] THERMISTOR SENSOR, TYPE J 10KOHM THERMISTOR
- [2] BINARY INPUTS (DRY CONTACT CLOSURE)

**THERMOSTAT CONNECTION:**

- [1] THERMOSTAT INPUT, TYPE J 10KOHM TEMPERATURE SENSOR (RJ45 CONNECTION)

**CIRCUIT PROTECTION**

- [1] 10A FUSE MINI (NOTE: REPLACE WITH 10A MINI-BLADE AUTO FUSE)

**OUTPUTS:**

- [4] ANALOG OUTPUTS, MAX 10mA EACH, CONFIGURABLE:
  - [FAN, HEAT, COOL, AUXILARY]
- [10] BINARY OUTPUTS, MAX 0.5 AMPS EACH, CONFIGURABLE, EXTERNAL POWER MUST BE 24VAC MAX
  - [FAN, HEAT 1, HEAT 2, HEAT 3, HEAT 4, COOL 1, COOL 2, COOL 3, COOL 4, HEAT ENABLE, COOL ENABLE]

**COMMUNICATION PORTS:**

- BACNET MS/TP MODULE WIITH RJ45 JACK AND 3–POSITION TERMINAL BLOCK (COMMUNICATION SPEEDS: 9600, 19200, 38400, 76800 (DEFAULT))

**MODES/STRATEGIES**

- [1] STAND ALONE MODE
  - NO BACNET/ZONE POLLING
- [3] NETWORKED MODE (UP TO 30 ZONES PRICE PIC, PIC–SD, DISIO DISPLAY AND/OR PRODIGY SMART DIFFUSERS)
  - AVERAGE POLLING (DEFAULT) – THE RTU WILL BE CONTROLLED USING ROOM TEMPERATURE AND SETPOINT OF EACH ZONE AND THE MAJORITY DEMAND WINS.  
EXAMPLE: COOLING – 50%, HEAT 40%, NEUTRAL 10% = COOLING WINS
  - NON MAJORITY POLLING – THE RTU WILL FAVOUR ONE OF 3 MODES AT SET MAJORITY DEMAND (%)
    - COOLING, HEATING, OR DEADBAND
  - SEASONAL: PRTU CAN BE SET TO SWITCH STRATEGIES AUTOMATICALLY ON SEASON CHANGE VIA THE REAL TIME CLOCK AND CALENDAR
    - SUMMER: FAVOUR COOLING
    - WINTER: FAVOUR HEATING
    - SPRING/FALL: AVERAGE POLLING
- [1] ON DEMAND (FOR UNIQUE SCENARIOS)
  - WILL ENABLE EITHER COOLING OR HEATING IF ANY ZONE IS OUT BY 1%


**SIZE AND WEIGHT**

8.25" x 3.55" x 2.25" (LxWxH) AT 0.8 LBS (400G)

**WEB SERVER BACNET POINTS:**

73 NODES/POINTS

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