

PROLON



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# QUICK START **GUIDE**

VAV CONTROLLERS & WALL SENSORS

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REV 4.0  
PL-QCK-WSENSOR/VC2000-EN

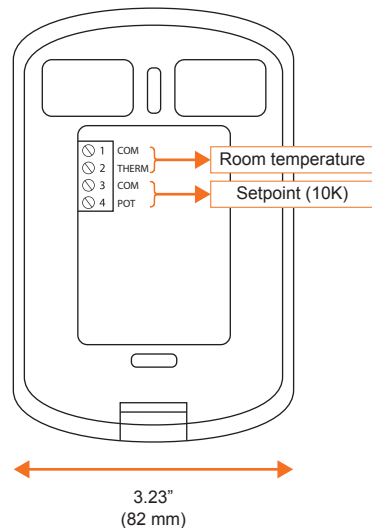
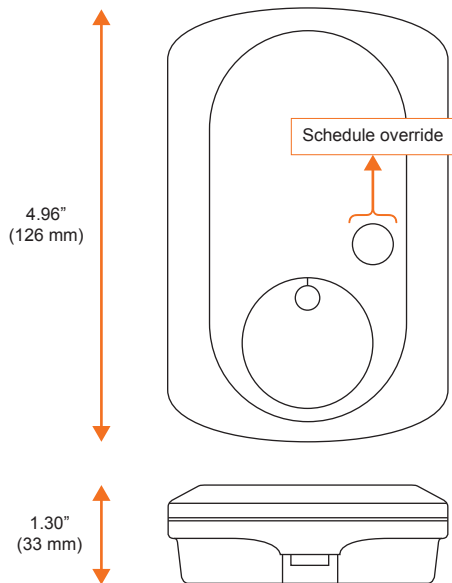
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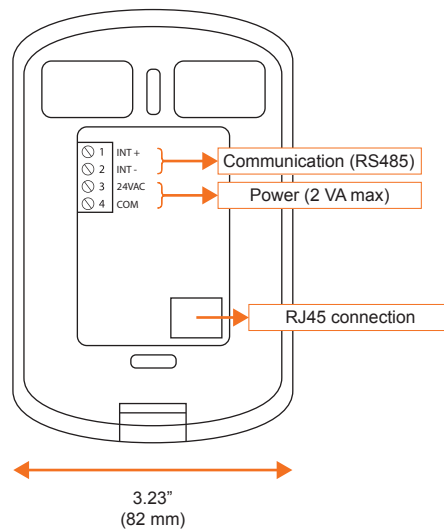
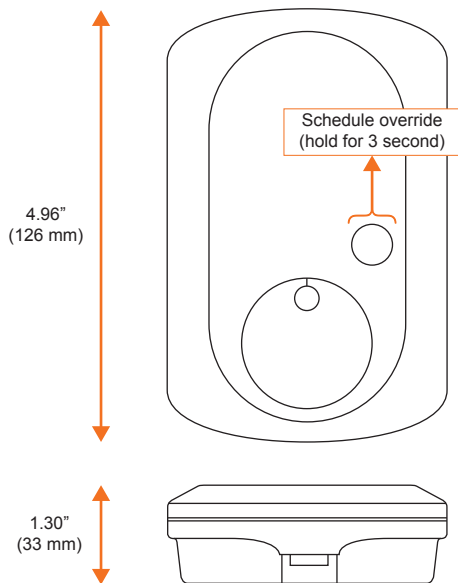
## Dimensions and Wiring



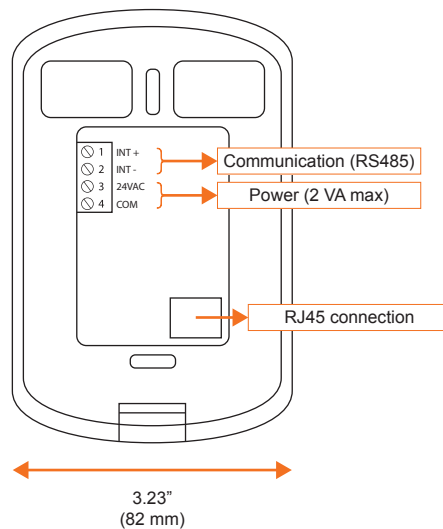
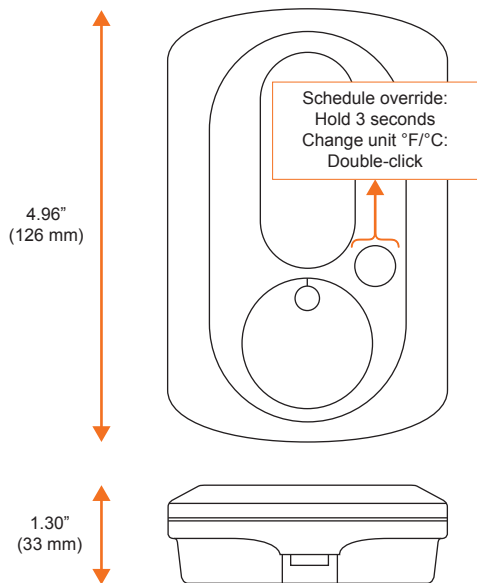
**Temperature table (thermistor: 10K Type 3)**

<b>Fahrenheit</b>	41	50	59	68	77	86	95	104
<b>Celsius</b>	5	10	15	20	25	30	35	40
<b>Ohms</b>	25395	19903	15714	12493	10000	8056	6530	5324

## Dimensions and Wiring



## Dimensions and Wiring



## Sonde numérique (PL-T1000)

### Installation

1. Séparez le boîtier du couvercle arrière en appuyant sur la languette située sous la sonde. (Voir Figure 1)
2. Passez les fils à travers le trou central du couvercle arrière.
3. Vissez le couvercle arrière au mur.
4. Raccordez les fils:
  - Si vous utilisez des fils à paires torsadées:
    - Enlevez les borniers à vis.
    - Retirez 1 cm d'isolation à partir du bout de chaque fil.
    - Raccordez les fils aux borniers et remettez les borniers en place. (Voir Figure 2)
  - Si vous utiliser un câble de type CAT5:
    - Raccordez le câble dans la prise RJ45 du T1000 (si le câble est ouvert au régulateur, référez-vous à la figure 3 pour le raccordement approprié du port RJ45 du T1000.
5. Remplacez le boîtier sur le couvercle arrière.

### IMPORTANT!

#### Ne pas installer la sonde dans les conditions suivantes:

- Tout endroit directement exposé au soleil.
- Sur un mur extérieur.
- Près d'une grille de sortie d'air.
- Dans un endroit où la circulation d'air à la verticale est restreinte.
- Près d'un interrupteur de lumière de type gradateur.

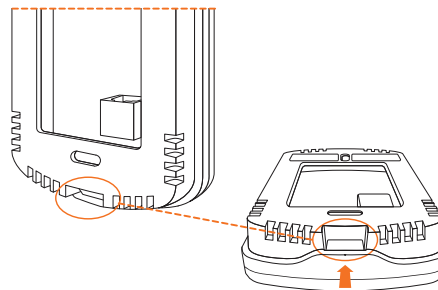


Figure 1



Figure 2

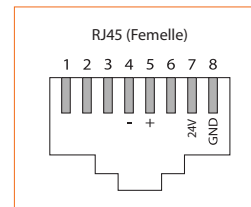
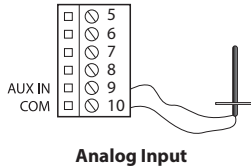


Figure 3

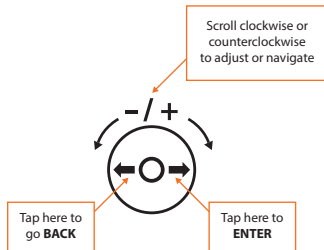
## Auxiliary Analog Input

The T1000 has auxiliary analog input which can be used to connect another thermistor. The T1000 can be configured to use this alternate temperature reading for a variety of functions, including temperature averaging or radiant floor slab temperature. The alternate thermistor (10KΩ type 3) can be connected to the auxiliary input using the “AUX IN” and “COM” pins. (See figure below)

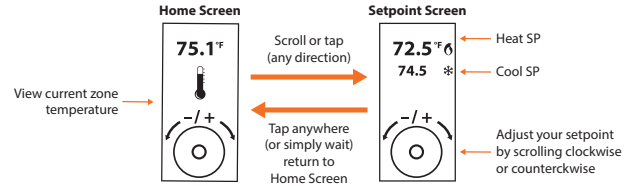


## Operation

The T1000 is controlled using the circular touch pad on the bottom half of the thermostat. The touch pad uses capacitive sensing technology to detect finger proximity. There are no moving parts to push or rotate. The T1000 is controlled using simple scrolling, tapping or holding motions, performed around the circle of the touch pad. The center of the circle is unused.

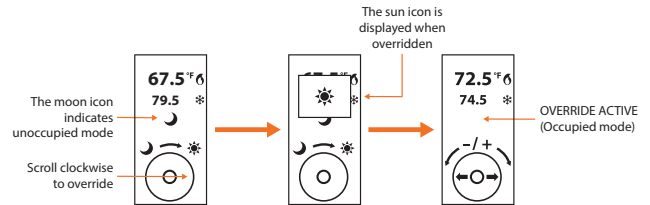


## Changing the Setpoint

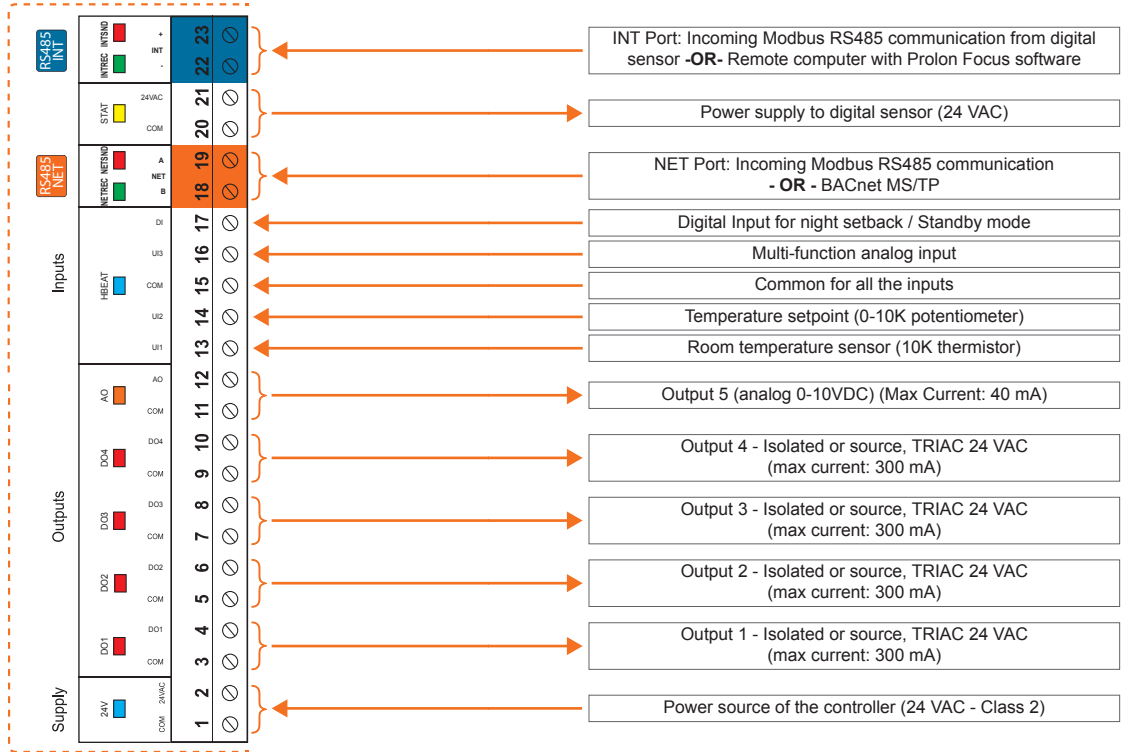


## Schedule Override

The First, go to the Setpoint screen.



# VAV Zone Controller (PL-C1050-VAV)



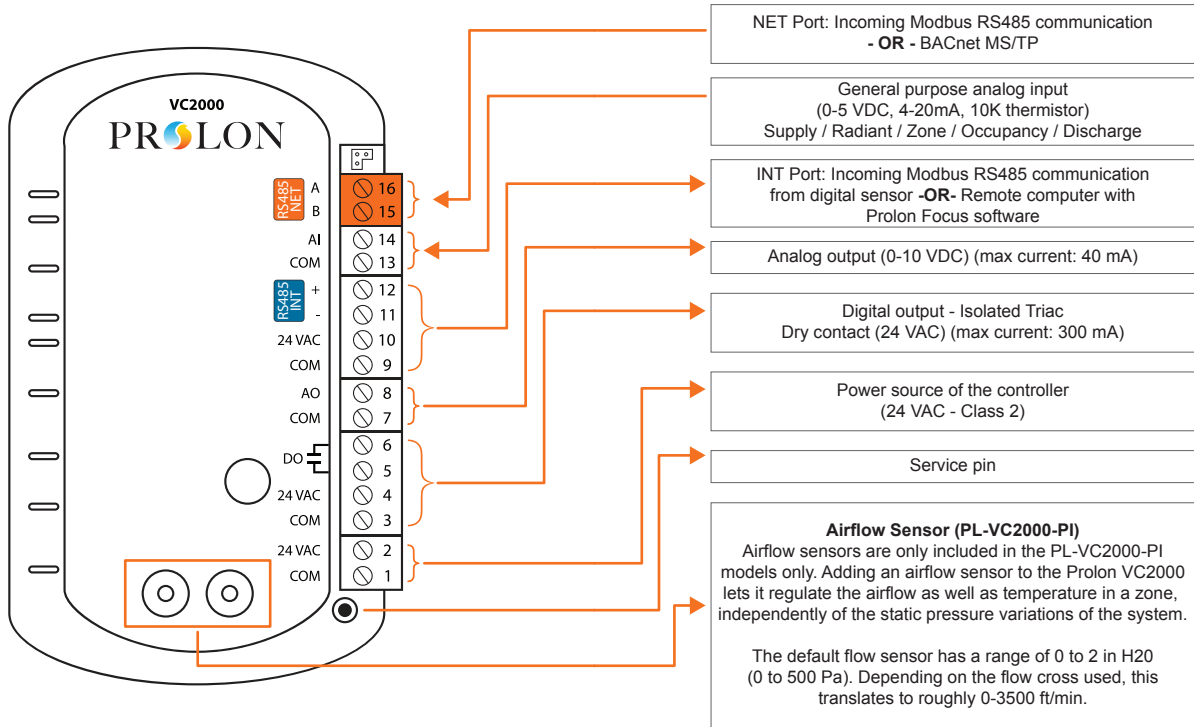
-4 to 122 °F (-20 to 50 °C) Non-condensing

cULus Listed; UL 916 Energy Management Equipment, File E364757, Vol.1





# VAV Zone Controller (PL-VC2000)



# Compliance

## Digital Sensor (PL-T1000)

- FCC Compliant to CFR47, Part 15, Subpart B, Class B
- Industry Canada (IC) Compliant to ICES-003, Issue 5: CAN ICES-3 (B) / NMB-3(B)
- RoHS Directive (2002/95/EC)

## VAV Zone Controller (PL-C1050-VAV / PL-VC2000)

- cULus Listed; UL 916 Energy Management Equipment, File E364757, Vol.1
- CAN/CSA-C22.2 No. 2015-12, Signal Equipment
- FCC Compliant to CFR47, Part 15, Subpart B, Class B
- Industry Canada (IC) Compliant to ICES-003, Issue 5: CAN ICES-3 (B)/NMB-3(B)
- RoHS Directive (2002/95/EC)

## FCC User Information

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

## Industry Canada

This Class (B) digital apparatus meets all the requirements of the Canadian Interference-Causing Equipment regulations.

Cet appareil numérique de la Classe (B) respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

# Technical Specifications

## PL-RS / PL-T200

Supply: 24 VAC  $\pm$ 10%, 50/60 Hz  
Consumption: 2 VA max

## PL-T500 / PL-T1000

Supply: 24 VAC  $\pm$ 10%, 50/60 Hz  
Consumption: 5 VA max

## PL-C1050-VAV

Supply: 24 VAC  $\pm$ 10%, 50/60 Hz  
Consumption: 2 VA (Typ), 32 VA (Input)

## PL-VC2000

Supply: 24 VAC  $\pm$ 10%, 50/60 Hz, Class 2  
Consumption: 3 VA (Typ), 5 VA (Max),  
24 VA (Input)