



Overview

The Resistance Output Module (ROM) converts the data from a Wireless Receiver or a Washdown Wall Plate Unit into a Resistance for the DDC controller. The unit is factory calibrated to output a 10K-2 or 10K-3 thermistor curve.

The Voltage Output Module (VOM) converts the data from the Wireless Receiver or a Washdown Wall Plate Unit into a linear 0-5 volt or 0-10 volt signal for the DDC controller.

The loop powered Current Output Module (COM) converts the data from the Wireless Receiver or a Washdown Wall Plate Unit into a linear 4-20mA signal for the DDC controller.

Analog output modules receive data from a Point Six 418, 900 MHz Receiver or a Washdown Wall Plate Unit through a RS485 four-wire bus. Up to 127 different Output Modules can be connected on an RS-485 data bus to send multiple variables to the controller.

All analog output modules are easily trained to a single transmitted variable with a pushbutton and LED. Analog output modules are surface, 2.75" snaptrack or 35mm din rail mountable.

Product Identification

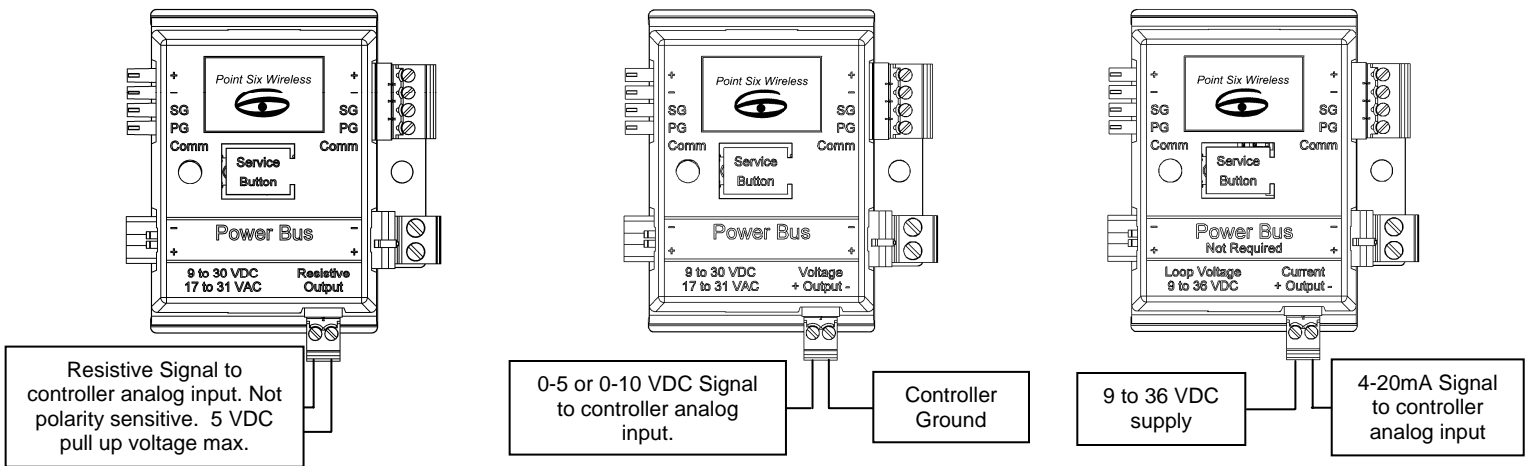


Figure 1: Resistance Output Module

Figure 2: Voltage Output Module

Figure 3: Current Output Module

Tools and Materials

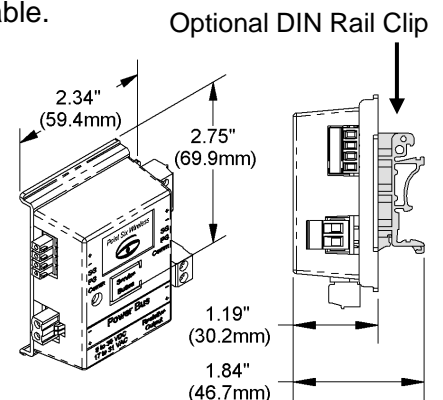
#2 Philips Screwdriver, 1/8" Screwdriver with 1/16" Allen wrench (BA/116W), Drill, Wire

Mounting and Termination

Analog output modules are surface, 2.75" snaptrack or 35mm din rail mountable.

For wireless systems, see either the 418MHz receiver Installation & Operation sheet or the 900MHz receiver Installation & Operation sheet.

For Washdown Wall Plate Unit systems, see the Washdown Wall Plate Power Supply Installation & Operation sheet.



Specifications subject to change without notice.



Diagnosics

Possible Problems:

Temperature or Humidity is reading its low limit

Possible Solutions:

- Check wire from output modules to controller for proper connections and polarities.
- Check to see if the controller's software is configured properly.
- Check transmitter to see if its LED flashes about every 10 seconds. If not replace the batteries for wireless or check the BA/VPS for SPV systems.
- Check power to the receiver and output module.
- Check output modules LED, if it is blinking fast
 - Check the associated transmitter as described above
 - Retrain the modules

Temperature or Humidity reading is coming out the wrong output module

- Retrain the modules.

Temperature or Humidity is reading incorrectly

- Check wire from output modules to controller for proper connections and polarities.
- Check to see if the controller's software is configured properly
- Check to see if the correct output module is connected to the right controller.

LED Blinks Rapidly

- Data not getting through from transmitter assigned to this output module. Check transmitter.

Specifications

Common Specifications

Inputs: RS485

RS485 Cable Distance: 4,000 ft with shielded, twisted pair cable (Belden 9841, Belden 8132 or equivalent)

Environmental Operation Range:

Temp: 0° to 60°C

Humidity: 5% to 95% RH non-condensing

Material: ABS Plastic

Material Rating: UL94, V-0

Resistance Output Module

Temperature Output Ranges at ~0.5°F Resolution:

10K-2 Unit: 35°F to 120°F (1°C to 50°C)

10K-3 Unit: 32°F to 120°F (0°C to 50°C)

Supply Power: 14 to 30 VDC or 6 to 31 VAC

Power Consumption: 3 mA max. DC, .1 VA max AC

Output Resolution: 10 bit

Voltage Output Module

Supply Power:

0 to 5VDC output: 9 to 30 VDC or 17 to 31 VAC

0 to 10VDC output: 14 to 30 VDC or 17 to 31 VAC

Output Voltage Range: 0-5 volts or 0-10 Volts (factory calibrated)

Output Current: 1 mA

Power Consumption: 3 mA max. DC, .1 VA max AC

Output Resolution: 10 bit

Current Output Module

Output Current Range: 4-20 mA (factory calibrated)

Power Consumption: Loop Powered, 20 mA max

Output Resolution: 12 bit

Specifications subject to change without notice.