



Discover The Possibilities™



Vantage InFusion Systems

Bi-Directional Driver Setup

About:

Vantage has developed its InFusion control and automation platform around lighting control as the core; coupled with a multi-system native solution delivering the ability to integrate best-of-category products from different manufacturers. This approach simplifies system design, installation, programming and ongoing support while ensuring a consistent user experience across all applications. Pair the InFusion System with Compass Control and a must have state-of-the-art smart control system will be at your fingertips.

Setup Communication:

Please add the provided Vantage InFusion IP Device Library. InFusion is controlled via TCP/IP on port 3001.

Adding the Bi-Directional Driver:

After adding the provided IP Device Library, under Properties for InFusion, add the provided driver, "Vantage_InFusion.drv", by clicking on the magnifying glass underneath the Bi-Directional Driver Field.

Also, above the Bi-Directional Driver Field, please check the "Real-Time buffer in Master Controller" box and set to 1.0 seconds for the "main" function repetition interval"

Sending "Set Commands":

Vantage uses an ID system for identifying their components. Every command requires a Vantage ID (VID). When sending commands, please specify a VID. These IDs can be found in the Vantage Design Center software.

Driver:

Vantage Set Commands and Parameters (P)

- Control Lighting
 - set_Load()
 - P1 = Vantage ID (VID)
 - P2 = Light Percent 0 to 100
 - set_RampLoad()
 - P1 = VID
 - P2 = Light Percent 0 to 100
 - P3 = Seconds for Ramp
- Control Thermostats
 - set_ThermostatSetPoint()
 - P1 = VID
 - P2 = Heat or Cool Setpoint
 - P3 = Temperature of Setpoint
 - set_ThermostatFan()
 - P1 = VID
 - P2 = Fan Mode
 - set_ThermostatMode()
 - P1 = VID
 - P2 = Thermostat Mode
 - set_ThermostatDayMode()
 - P1 = VID
 - P2 = Thermostat Day/Night Mode
- Control Blinds
 - set_Blind()
 - P1 = VID
 - P2 = Shade Percent 0 to 100
 - adjust_Blind()
 - P1 = VID
 - P2 = Shade Motion: Up, Down, or Stop
 -
- Subscribe to Events
 - set_SubscribeToEvents()
 - P1 = Event to subscribe to: Loads, Thermostat, etc.



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Sending "Get Commands":

Compass Navigator stores all "Get" Commands into variables (Lighting and Thermostat bi-directional support only)

- For Lighting and Thermostats
 - Vantage_Load
 - Vantage_ThermostatMode
 - Vantage_ThermostatFan
 - Vantage_ThermostatDayMode
 - Vantage_ThermostatIndoorTemp
 - Vantage_ThermostatOutdoorTemp
 - Vantage_ThermostatCoolPoint
 - Vantage_ThermostatHeatPoint

All variables listed above are arrays and indexed by the variable "Index_Vantage". To update the graphics, please create "changeValue" events for each variable desired and make conditions for each VID. Example below for Loads:

Events & Actions

```

changeValue
IF (Var@#Index_Vantage = 27) do(4)
  VALUE (Main_Page/Lighting_L27:Dimmer_Slider.value = Var@Vantage_Load)
  IF (Var@Vantage_Load <= 0) do(1)
    VALUE (Main_Page/Lighting_L27:LED_On.value = "up")
  ELSE do(1)
    VALUE (Main_Page/Lighting_L27:LED_On.value = "down")
  END If
  ELSE do(0)
  END If
  IF (Var@#Index_Vantage = 28) do(4)
    VALUE (Main_Page/Lighting_L28:Dimmer_Slider.value = Var@Vantage_Load)
    IF (Var@Vantage_Load <= 0) do(1)
      VALUE (Main_Page/Lighting_L28:LED_On.value = "up")
    ELSE do(1)
      VALUE (Main_Page/Lighting_L28:LED_On.value = "down")
    END If
    ELSE do(0)
    END If
  
```

Driver:

Vantage Query Commands and Parameters (P)

- Query Lighting
 - get_Load()
 - P1 = VID
- Query Thermostats
 - get_ThermostatSetPoint()
 - P1 = VID
 - get_ThermostatFan()
 - P1 = VID
 - get_ThermostatMode()
 - P1 = VID
 - get_ThermostatDayMode()
 - P1 = VID
- Query Blinds
 - get_Blind()
 - P1 = VID