



Centaurus Prime

“Trane-485” Gateway

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Features and Benefits:

- Integrates VAV-1s through VAV-4s, Wireless Sensor Controllers, Comm-4 Chillers, Intellipak Rooftop Units, TUCs (Terminal Unit Controllers), FCUs (Fan Coil) and Voyager (a.k.a Reliatel) package units on Trane COMM4 RS-485 trunks (or COMM3 non-isolated)
- Uses only 2-3 commands to obtain ALL data from a device, for fast response.
- All field devices presented as true BACnet devices, with AI, BI, AO, and BO objects.
- All field controllable objects are writable with full 16 BACnet priority levels (done in the gateway).
- Handles up to 240 devices maximum; up to 10,000 I/O points.
- BACnet/IP (Annex J) is fully supported, and tested with many different vendor's equipment (at "PlugFests" and at hundreds of sites).
- Autodiscovery of Trane trunks; BACnet objects are fully browsable.
- Completely customizable: User-configurable "templates" for any individual field device, or for all of a certain type.
- No software required for configuration (all setup can be done via HyperTerminal).
- Easy menu-driven operation during commissioning.
- Communications statistics kept daily; available via BACnet AV objects.

Integrate Trane Comm3/4 Devices to BACnet

The Centaurus Prime “TRANE-485” Gateway allows you to integrate legacy Trane COMM3 (non-isolated) and COMM4 (RS-485) devices to a modern, open BACnet control system.

The “TRANE-485” Gateway auto-discovers up to four trunks of VAV, Voyager, Chiller, TUC, FCU, Wireless Controllers, and/or Intellipak devices. Each device type is presented as a true BACnet Device, with all points on that device mapped as standard BACnet objects (AI, AO, BI, BO). Wireless Sensor statistics are AIs (3 per sensor) Controllable points in the Trane devices are also commandable via BACnet, with the full 16-element BACnet priority array implemented within the Gateway.

Users or Controls Contractors can customize what points are presented via “templates”, or just use the default (all points exposed). The templates can be for all devices of a particular types (e.g., Voyagers), or the can be customized, for EACH and every individual field device, should you wish.

Hundreds of installations throughout the US, Canada, Europe, and Australia assure you of correct operations, with a multitude of host BACnet systems. (For industrial applications, Modbus TCP/IP host protocol is available: special-order option.)

Contact Centaurus Prime for more information.



Technical Specifications:

Power: 100 to 240 volt operation, 50 to 60 Hz, with auto-detection. 25 watts inrush; 10 watts nominal.

Trane Trunks: Field trunks [COMM3/COMM4] are electrically RS-485. Isolated power supplies for trunks, earth grounding for shields. Optical isolation: 1500 Volts RMS. Transient protection: 600 Watts (10/100us waveform). Peak Surge current: 100 Amps (8.3 8s single half-sine wave). ESD protected to +/- 15,000 Volts (Human body model & air-gap discharge)

Ethernet: 10 Megabaud 10-Base-T (NE2000 compatible controller).

Computer: 386-class PC; 1 MB Static RAM; 512 KB flash, 32 MB Disk-on-chip (NOVRAM)

Operating Temperature: -40 to +85 degrees C. 10 to 90 percent RH (non-condensing).

Cabinet Ratings: NEMA 1, 2, 3, 3R, 4, 4X, 13

Dimensions: 16” high, 14” wide, 8” deep. 20 pounds

Warranty: Hardware: 2 years, (factory depot repair). Software: 10+ years, (factory download to installer).