Carrier

TruVu

i-Vu® Building Automation System
TV-UC561
Advanced Application Controller

The TruVu™ Advanced Application Controller is ideal for HVAC equipment control, advanced air quality control and most zone-level applications. The TV-UC561 features dual Ethernet ports with built-in fail-safe that supports direct connection or daisy chain topologies using BACnet/IP and 12 points of onboard control. Designed to operate in a wide range of environmental conditions, it is well suited for mechanical rooms, equipment boxes, or almost any other weather-tight location.

i Vu

Application Features

- Versatile controller suitable for a variety of applications, including: small AHUs, fan coils, exhaust fans
- Standard library of control programs available for most unitary equipment and zone applications
- Supports Snap graphical programming software
- Supports Carrier communicating sensors, which are available in a variety of zone and equipment sensing combinations
- Supports Carrier TruVu touchscreen interfaces for managing and troubleshooting the connected equipment easily and for occupant engagement
- Supports live, visual displays of control logic, which uses real time operational data and aids in optimizing and troubleshooting system operations

Hardware Features

- Dual 10/100 Mbps, BACnet IP and IP addressing
- Supports home run, daisy chain and ring IP network topologies
- Capacitor-backed real-time clock keeps time in the event of power failure or network interruption for at least three days
- USB port for local device updates, hard-wired, and wireless service connections
- DIN rail or screw mounting

System Features

- Connects seamlessly to the i-Vu building automation system

i-Vu Building Automation System
TV-UC561

Specifications

BACnet Comformance		Conforms to the BACnet Advanced Application Controller (B-AAC) and BACnet Broadcast Management Device (B-BBMD) standard device profiles, as defined in BACnet 135-2001 2012 Annex L Protocol Rev 14
Power		24Vac +/- 15% , 50 - 60Hz, 55VA | 24Vdc +/- 10%, 20W. (80VA / 35W if additional Act Net devices are connected)
Communication	BAS Primary port	Dual 10/100 BaseT Ethernet ports with built-in fail safe, supporting direct connection or daisy chain topology natively using BACnet/IP (non-routing)
	Rnet port	12Vdc @ 260mA Supports the following: Up to 5 ZS sensors (freely mix ZS zone, ZS duct, ZS immersion and ZS outdoor sensors), iVu Equipment Touch, or TruVu ET Displays (external power required)
	Act Net port	Supports up to 5 Act Net communicating devices such as the i-Vu Smart Valves and Smart Damper Kit
	USB Service port	For TruVu ET Display support |configuration | wireless service access | firmware updates and controller recovery via USB drive
	USB Expansion port	For support of comm expansion devices (future)
Inputs	Universal	6 Universal Inputs electronically configurable to any of the following types: Dry | Pulse Counting |Thermistor | 0-10 Vdc
	Auxiliary Power	24Vdc @ 100mA total current capacity
Outputs	Universal output	1 Output selectable to 0–10 Vdc (20 mA max), 12 Vdc 80 Hz PWM, or (Dry Contact) Rated @24VAC 1 Amp
	Digital output	5 Digital outputs (Dry Contact) Rated @24Vac/Vdc 1 Amp. Configured normally open
Memory		4 GBs eMMC Flash memory and 256 MB DDR3 DRAM. User data is archived to non-volatile flash memory when parameters are changed, every 90 seconds
Real Time Clock		Real-time clock keeps track of time in the event of a power failure for at least 3 days
Compliance		**United States**: FCC compliant to Title CFR47, Part 15, Subpart B, Class A; UL Listed, File E143900; CCN PAZX, UL 916, Energy Management Equipment; **ANZ**: RCM Mark AS/NZS 61000-6-3; **Canada**: UL Listed File E143900, CCN PAZX7, CAN/CSA C22.2 No. 205 Signal Equip., Industry Canada Compliant ICES-003, Class A; **CE Mark** Compliant with 2014/30/EU, and RoHS Compliant: 2015/863/EU; **UKCA Mark** compliant with Electromagnetic Compatibility Regulations 2016 – Gov.UK and RoHS for Electrical and Electronic Equipment 2012.
Plastic Rating		Fire-retardant plastic ABS, UL94-5VA
Environmental		Operating Range: -22 to 158°F (-30 to 70°C), 10-95% RH, non-condensing Storage: -40 to 158°F (-40 to 70°C), 10-95% RH, non-condensing

Physical

DIN rail or Screw mounting

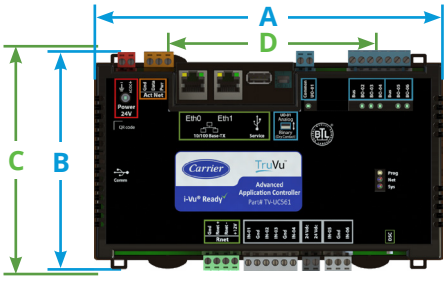
Minimum panel depth: 2.75 in. (7 cm)

Dimensions:
Overall

A: 7.785 in. (19.77 cm)
B: 4.89 in. (12.43 cm)
Depth: 2.00 in. (5.09 cm)
Weight: 1.6 lb. (0.82 kg)

Screw Mounting

C: 6.45 in (16.38 cm) (fully extended)
D: 4.5 in. (11.43 cm)



QR code on label to provide technician with access to MAC address, serial number and technical documentation

For more information, contact your local Carrier Controls Expert.

Controls Expert Locator:
www.carrier.com/controls-experts

©2021 Carrier. All Rights Reserved. **Cat. No. 11-808-863-01 Rev. 12/22**
Manufacturer reserves the right to discontinue, or change at any time, specifications or designs, without notice and without incurring obligations. All trademarks and service marks are property of their respective owners.