

DEC Universal Controller (DEC-UC-1)

TECH/DATA SHEET

Date: 1/31/2014

Westco's DEC-UC is the next generation Universal Programmable Controller including real time clock and 365 day calendar. Offering ICMS software and Tridium® Niagara Framework™ via it's BACnet® MS/TP interface.

With (8) universal inputs and (8) analog outputs built-in, the DEC-UC can be expanded to include (4) or (8) digital outputs using plug-in modules. This modular construction provides customization of the DEC-UC for any type of application.

The DEC-UC applications include solar systems, built up HVAC units, split systems, rooftop units, fan coil units, chiller and boiler plants, heat pumps (water or air source), variable speed drives, lighting, dampers, valves, actuators, gas detection and monitoring, multiple alarms.

Specifications

Power Requirements

Input Voltage: 23 to 28 VAC 50/60 Hz
Consumption: 1.7 VA (without optional plug-in modules)
10.3 VA (all optional plug-in modules used)
Input Voltage Fuse: Resettable fuse rated at 1.1A at 24VAC

Inputs/Outputs

Analog Inputs:

Eight (8) Analog Inputs.
Can be independently configured for thermistor*, digital, 0-10vdc or 4-20mA

* Thermistor Inputs are 3k, 10k, 100kohm thermistor, Type 3

Analog Outputs:

Eight (8) 0-10vdc Analog Outputs*

* Can drive down to 10Kohm loads at 10vdc

Digital Outputs:

Up to Eight (8) Digital Outputs* (24vac only, 3A max)

* Eight (8) digital outputs would require two (2) plug-in relay modules (DEC-R4)



Operating Environment

Temperature: 40 to 140 F (4 to 60 C) *
Humidity: 10-90% Relative, noncondensing **
* Storage Temperature: -10 to 150 F (-23 to 66 C)
** Storage Humidity: 0-95% Relative, noncondensing

Network Communication

Method: RS-485 (MS/TP)
Cable: 3 conductor, 22 guage, shielded, up to 8000ft max
Baud Rate (selectable): 57.6k, 38.4k, 19.2k, 9600, 2400, 1200, 76,800

Memory Backup

Battery: 7 year lithium

Physical Dimensions

Height: 70 mm (2.75 in)
Width: 78 mm (3.0 in)
Length: 160 mm (6.3 in)
Mounting Holes: 148.5 mm (5.85 in) Center to Center
Weight: 1.2 lb
ABS plenum rated body

Agency Approvals



Listed Device: UL Listed under E76576 24G9



BACnet® Testing Laboratories (BTL)