



PT-816 Tridium Niagara 4[©] Training Unit

Building Automation HVAC Controls Energy Management DDC Programming

Overview

The PT-816 is a portable “Suitcase” training unit specifically designed for Building Automation system integrators who utilize the Tridium Niagara 4 Framework[®] platform and the Jace 8000[®] series controllers. The web-enabled Jace 8000 DDC controller allows the student to access the Trainer using a JAVA Web Start and JAVA[®] modules or by using the HTML5 profile. All of the DDC devices are interfaced with the main controller via hardwired or network connections. The touchscreen thermostat is a Viconics VT8600[®] series programmable controller that communicates via BACnet MSTP. The 16 point “NRIO” (Niagara Remote IO) module communicates via RS-485. Three physical inputs, one Type 3 Thermistor, one 10k 10-turn pot and one SPST switch allow for simulation of live inputs. The PT-8000s can be operated stand alone or easily networked together for use in a learning center environment. A “Startup Demo” station allows for initial orientation to the PT-816. The Demo station can be modified or replaced to meet the requirements of the specific instruction program. The rugged, weatherproof case has a built-in handle



and a removable cover. The case can be permanently mounted to a tabletop using the integral mounting slots.

Components

DDC Controller, Web enabled, JACE 8000 series, with permanent BACnet, LON, Modbus licenses

16 point "NRIO" Input/Output module with RS-485 interface

Programmable Viconics 8600 series RTU controller with BACnet MSTP interface

Instrument panel with Input devices and 24vac posts for auxiliary device power

5 Port Ethernet switch 10/100mpbs

Specifications

| | |
|-----------------------|-----------------------------------|
| Power Requirements | 50w 120vac 60hz |
| Operating Temperature | 55°F to 85°F |
| Storage Temperature | 10°F to 110°F |
| Relative Humidity | 10 to 95% RH non-condensing |
| Mounting | 5/16" carriage bolts (2) optional |
| Shipping Weight | 20 lbs (not including workbooks) |
| Dimensions | 18.5"W x 14"H x 7"D (w/cover) |

Curriculum

DDC/PT816DEMO Startup station with pre-configured network drivers and device profiles. **No core curriculum included.** Intended for use by Tridium certified AX/N4 system training programs and/or System integrators who are Tridium AX/N4 certified.

Rev. 0119 Subject to change

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