



# PT-131 DDC Portable Training Unit

**Building Automation   HVAC Controls   Energy Management   DDC Programming**

## Overview

The PT-131 is a portable training unit specifically designed for the DDC (Direct Digital Controls) industry. It is packaged with curriculum that is both embedded in the Trainer and contained in a written workbook resulting in a highly interactive student – trainer experience. The PT-131 incorporates some of the most popular DDC devices currently in use. The web-enabled DDC controller allows the student to access the Trainer using a standard web browser and JAVA SE®. All of the DDC devices are interfaced with the main controller via hardwired or network connections. BACnet IP / MSTP and Modbus networks are utilized allowing the student to gain exposure to the most popular BAS networks in use. The PT-131s can be



operated stand alone or easily networked together for use in a learning center environment. Onboard temperature, CO<sub>2</sub>, humidity, and motion sensors are included. Graphical object oriented programming

is presented using the Niagara AX Framework®. The rugged, weatherproof case has built-in rollers and a retractable handle. The case can be permanently mounted to a tabletop using the integral mounting slots.

## Components

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DDC Controller, Web enabled, JACE 300 series, with permanent BACnet, LON, Modbus licenses

34 point Input/Output module with integral power supply

Programmable RTU thermostat with color touchscreen, BACnet MSTP, and web interface

Communicating FCU thermostat with analog output and BACnet MSTP interface

CO<sub>2</sub> / temperature room sensor with setpoint slider

Micro VFD with Modbus interface and 3 phase visual output indicators

90 degree stroke Actuator with 2-10 vdc position feedback

Status CT, Pilot relay with HOA switch, Thermistor temp probe

Instrument panel with Input/Output devices and 24vac posts

8 port Ethernet switch 10/100mpbs

## Specifications

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Power Requirements	100w 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	3/8" carriage bolts (2) optional
Shipping Weight	44 lbs (not including workbooks)
Dimensions	24"W x 21"H x 10"D (w/cover)



## Curriculum Options

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DDC/HVAC-101	Introduction to Direct Digital Controls – HVAC Focus (DDC Level 1)
DDC/HVAC-201	Direct Digital Controls for the DDC/HVAC field technician (DDC Level 2)
DDC/SHELL	Startup station with pre-configured network drivers and device profiles. No core curriculum included. (Only avail. for established DDC training institutes)