

## ValuPoint® Model VP4-2330

Control Solutions' Model VP4-2330 ValuPoint® Programmable I/O for BACnet MS/TP is a BACnet Application Specific Controller (B-ASC) that includes programmable control. The 4th generation ValuPoint® platform features 14 universal context sensitive inputs. When configured as an analog input, the continuously self-calibrating sigma-delta converter produces 15-bit resolution with high noise immunity. When configured as a discrete input, the converter switches to 10-bit resolution at 1,000 samples per second for fast response. ValuPoint 4-23 also includes 3 analog outputs, 6 Form A relay outputs, and pulse counting capability on all inputs.

### Software Features of Model VP4-2330

- Implements B-ASC BACnet Standard Profile
- Freely programmable - *i.CanDrawIt®* graphical programming
- COV Subscription support
- BACnet client for interface to other slave devices
- I/O points and undedicated BACnet objects
  - Input objects: AI, BI, MSI
  - Commandable output objects: AO, BO, MSO
  - Writeable value objects: AV, BV, MSV
- Configurable object allocation, up to 200 objects

### Hardware Features of Model VP4-2330

- 14 Analog/universal inputs, software selectable types
  - 0-10VDC, thermistor, discrete, dry contact, pulse
  - 0.1% reference, up to 16-bit resolution
  - Continuously self-calibrating sigma-delta converter
  - Non-volatile totalizing count inputs
    - (to 10Hz on all channels, to 1kHz on 2 channels)
    - 10-bit fast scan mode
- 3 Analog outputs
  - 4-20mA (0-20mA), 8-bit resolution, 500 ohm load max.
- 6 Discrete outputs
  - Form A relay
  - 2A @ 120VAC
  - 2A @ 30VDC
- Battery backed real time clock/calendar
- BACnet MS/TP at 9600 to 76800 baud
- Hardened RS-485 port
- 128KB non-volatile EEPROM configuration file capacity
- 64K Flash for User Program
- ARM 32-bit processor, 512K Flash, 56K RAM
- Powered by 18-30VDC or 24VAC 50/60 Hz
  - 0.3A @ 24VDC
- DIN rail mounting, 100mm H x 105mm W x 60mm D
- -40C to +70C, 5%-95% RH non-condensing
- Certifications: FCC, CE, UL 916 Listed

**ValuPoint®**  
PROGRAMMABLE I/O

**CS**  
CONTROL SOLUTIONS MINNESOTA

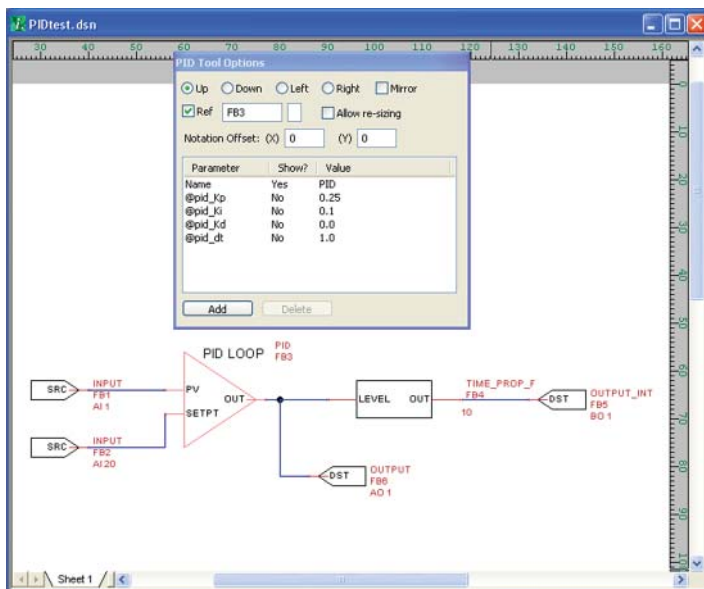
## ValuPoint® - An Outstanding Value

The ValuPoint® series of controllers is designed to be a building block in a distributed control system where controllers communicate peer to peer via BACnet MS/TP. Each ValuPoint controller can access BACnet objects in other BACnet devices, both ValuPoint controllers and other manufacturer's devices. Remote objects are mapped to local objects that mirror the value of the remote object. Access to the remote objects is via periodic polling. Other devices can subscribe to COV's in the ValuPoint controller.

All of the ValuPoint features available to local objects are also available to the remote mapped objects. This means the remote objects can be incorporated into the local i.CanDrawIt® program.

The user has the ability to assign object allocation as part of setup of the controller. Resources are allocated from a common pool, and the user has the ability to decrease the number of one type of object in order to increase the number of another type. Total object count will range from approximately 100 commandable objects (with full priority array) to 200 read/write objects. Object types include analog, binary, and multi-state variations of input, commandable output, and writable value.

ValuPoint® support software, available for download at no cost, includes the VP4-2330 configuration tool, i.CanDrawIt graphical programming tool, and the pliWrite line programming tool. Both programming tools support both simulated execution and live debug. The tools connect via a BACnet IP to MS/TP router, or via Control Solutions' MTX002 USB to MS/TP adapter.



## i.CanDrawIt®

i.CanDrawIt® works just like an electrical schematic CAD program, except you draw control programs that look like circuits. The resulting software will function like the circuit you draw. i.CanDrawIt® includes visual program simulation as well as visual live debugging where supported by the target device. Set breakpoints or step through the program one visual function block at a time. Update variables and I/O objects in simulation or live.

- Draw control programs
- Electrical CAD look and feel
- Ladder style, free form logic, or hybrid
- Compile code from drawings
- Simulate functions block by block
- Run to break point
- Run until paused
- Inspect or change variables
- Inspect or change registers (object's value property)
- Draw new function blocks
- Library source code included

i.CanDrawIt® is included at no additional cost with every ValuPoint® controller from Control Solutions Minnesota.

- No supporting software to buy
- No license fees, no run-time licenses
- Includes no-fee online support
- No time limits, no functional limits or disabled features

Visit our web site for

- Full details
- On-line Ordering

[www.csimn.com](http://www.csimn.com)



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