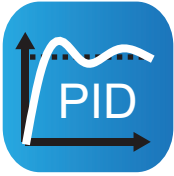# VC-22D Electronic Valve Controller Product Advantages

CLA-VAL®

The path to System Optimization

- Provides a simple way to achieve system optimization by adding the ability to control valve function, record performance and communicate with SCADA system all in one device

- SCADA can easily provide output and receive input to/from the VC-22D controller, either by wired retransmission and digital signals or Modbus communications, allowing SCADA to "manage and monitor" valve site

- Comes pre-programmed with every feature required to control a Cla-Val valve

- Powerful and easy valve application programming including flow control, pressure control, position control, modulating level control, metering, ratio control, altitude on/off control, pressure management, and more

- Highly customized valve applications also available, including multiple functions

- Programmed Control Curves for specialized level or pressure management control

- Internal logging to verify system performance

- Incorporates a multi-gigabyte SD card that continually logs all inputs and outputs. Logged data is transferred to USB memory and easily imported into Excel for evaluation of valve performance. User-selected time periods of data transfer, such as the last 24 hours or 7 days

- Comes with two Mechanical Relays for Alarms to SCADA or local "Actions", such as to close valve on a certain condition such as high level.

- Built-in feature that allows the user to set the valve to close, open, or lock valve in current position in the event of Feedback or Remote Set point signal loss

- Can be powered by a generator integral to the valve (i.e. Cla-val X143 Series Power Generators)

- Optional power converter allows operation of existing AC solenoid controlled valves

- Modern, high resolution, color graphics and a wide variety of inputs and outputs

- Password protection can be set by the user to prevent unauthorized changes

- Controller is provided with an anodized aluminum universal mounting bracket(s), allowing for versatile installation to system piping (horizontally or vertically), wall mounting, panel/cabinet enclosures, unistrut, valves, and other configuration

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I-VC-22D
Advantages

VALVE FUNCTIONS

PID Control
Used in maintaining a control valve at setpoint.

DP Metering
Used to return an accurate flow rate without having a flow meter installed. Using a valve position transmitter & DP transmitter, this function will calculate flow.

Control Curves
Uses a graphical function, allowing the user to make different signal types (for example: flow and pressure). The user also has the ability to make relationships as a function of time. This is the primary function employed in pressure management/water savings applications.

Actions
Used to take "action" (or alarms) on an input, output, or variable when a programmable condition is met.

Totalizer
Keeps track of total volume as a function of time. Customizable units & reset functionality allow for simplified set-up and configuration.

Retransmission
Used to retransmit any input signal, variable, or calculation to a SCADA system. Retransmission outputs include analog 4-20mA or digital (contact closure).