



Model **D35**

LOW-POWER ELECTRONIC VALVE CONTROLLER

PRODUCT FEATURES

- Up to 6x data acquisition channels
- 2x latching solenoid outputs actionable based on time, flow and/or pressure
- Integrated Multi-Channel Datalogger
- Data communication via 4G and 2G
- Interface to CLA-VAL Link2Valves™ for data visualization and remote configuration
- Local configuration through Wi-Fi from PC, Tablet or Smartphone
- Internal or External Battery operated, or external power supply compatible

MAIN FUNCTION

The Cla-Val D35 is an ultra-low power autonomous Electronic Valve Controller capable of simple or advanced rules-based output commands to control valves in locations where no electrical energy is available.

The D35 incorporates powerful processor, embedding advanced intelligence, such as Cla-Val use of proprietary algorithm program to calculate a flow measurement based on inlet/outlet pressure and valve position inputs. Additionally, The D35 controller incorporates pre-loaded valve applications **ValvApps™**, which can be customized for a wide variety of valve functions. Scaling of variables and parameters are configurable to fine tune the valve for smooth regulation.

Its large internal memory allows data logging over the product full lifetime, and the D35 can optionally implement data communication through the new generation 4G network, optimized for data communication (IoT). The product can then be connected to the Cla-Val **Link2Valves™** platform for an easy and complete integration, or to any custom FTP server.

Cla-Val D35 embeds a standard lithium battery, providing a long usage time. The product battery life can even be extended with the optional external high-capacity battery option. Alternatively it can be powered via and external power supply.

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SPECIFICATIONS

Power Supply:

- Internal lithium battery (accessible)
- Option: high-capacity lithium external battery
- Option: external power supply (5-30 VDC)

Inputs:

- 4x analog (Ratiometric, 0-5 V / 0-10 V)
- 2x digital (dry contact or pulse)

Outputs:

- 2x latching solenoids (6 VDC)
- 1x digital (dry contact or pulse)

Logger & Data Storage:

- Configurable logging interval
- Memory: 16 MB Flash + 8 GB Micro-SD
- Interface to Link2Valves™ for remote data access and configuration (optional)
- Communication to custom server

User Interface:

- Wi-Fi 802.11n/ac for local configuration
- Interface to CLA-VAL Link2Valves™ for remote configuration

Data Communication:

- 4G (LTE-M1, NB-IoT) and 2G (GPRS)
- Micro SIM card (accessible)
- Extendable antenna with flexible cable

Embedded Intelligence:

- Flow Totalizer
- Cla-Val Valve Flow Measurement (Requires Inlet/Outlet Pressure and Valve Position Sensor)
- Application Customized ValveApps

Housing & General:

- Dimensions: Ø 5.2in x L 5.1in (Ø 132 mm x L 130 mm) no antenna, no bracket
- Easy opening system without screws or tools
- Material: PC / ABS plastic UV resistant
- Protection: IP68 (2 m, 1 month)
- Operating Temperature: 14°F to 158°F (-10°C to 70°C)
- Storage Temperature: 4°F to 176°F (10°C to 70°C)