



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 controller incorporates pre-loaded valve applications **ValvApps™**, which can be customized for a wide variety of valve functions. Each **ValvApps™** is factory programmed for convenience and ease of commissioning. 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.

The D35 incorporates powerful processors, embedding advanced intelligence, such as **CLA-VAL ValveFlow™** flow calculation based on inlet/outlet pressures and valve position inputs.

The D35 is designed to be battery powered using a high-capacity lithium battery. Alternatively, it can be powered via an external power supply, or by means of the **CLA-VAL e-Power-MP** microturbine, for battery-free autonomous product.

- 6 input channels
- 2 latching solenoid outputs actionable based on time, flow and/or pressure
- Integrated Multi-Channel Datalogger
- Data communication via 4G and 2G (Optional)
- Interface to CLA-VAL **Link2Valves™** for data visualization and remote configuration
- Local configuration through WiFi from PC, Tablet or Smartphone
- Battery operated, or external power supply compatible with CLA-VAL e-Power MP turbine
- Protection IP68

### ▶ TECHNICAL DATA

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|-----------------------------------|--|
| <b>Power Supply:</b>              | <ul style="list-style-type: none"> <li>• High-capacity lithium external battery</li> <li>• Option: external power supply (5-30 VDC)</li> </ul>   |
| <b>Inputs:</b>                    | <ul style="list-style-type: none"> <li>• 4x analog (Ratiometric / 0-5 V / 0-10 V)</li> <li>• 2x digital (dry contact or pulse)</li> </ul>  |
| <b>Outputs</b>                    | <ul style="list-style-type: none"> <li>• 2x latching solenoids (6 VDC)</li> <li>• 1x digital (dry contact or pulse)</li> </ul>   |
| <b>Logger &amp; data storage:</b> | <ul style="list-style-type: none"> <li>• Configurable logging interval</li> <li>• Memory: 16 MB Flash + 32 GB Micro-SD</li> <li>• Interface to <b>Link2Valves™</b> for remote data access and configuration (optional)</li> <li>• Communication to custom server</li> </ul>  |
| <b>User Interface:</b>            | <ul style="list-style-type: none"> <li>• WiFi 802.11n/ac for local configuration</li> <li>• Interface to CLA-VAL <b>Link2Valves™</b> for remote configuration</li> </ul>   |
| <b>Data Communication:</b>        | <ul style="list-style-type: none"> <li>• 4G (LTE-M1, NB-IoT) and 2G (GPRS)</li> <li>• Micro SIM card (accessible)</li> <li>• Extendable antenna with flexible cable</li> </ul>   |
| <b>Embedded Intelligence:</b>     | <ul style="list-style-type: none"> <li>• Flow totalizer</li> <li>• Option: <b>ValveFlow™</b> valve flowrate calculation (requires CLA-VAL sensors)</li> <li>• Basic and Advanced regulation rules</li> </ul>   |
| <b>Housing &amp; General:</b>     | <ul style="list-style-type: none"> <li>• Dimensions: Ø 132 mm x L 130 mm (no antenna, no bracket, no ext. battery)</li> <li>• Easy opening system without screws or tools</li> <li>• Material: PC / ABS plastic UV resistant</li> <li>• Protection: IP68 (2 m, 1 month)</li> <li>• Operating Temperature: -10°C to 70°C</li> <li>• Storage Temperature: -20°C to 80°C</li> </ul> |