

The image features abstract geometric lines in the corners. In the top right, a blue line forms a parallelogram shape. In the bottom left, a green-to-blue gradient line forms a similar parallelogram shape. The text is centered on a white background.

Control
and automation

zillion

Asset actuation

This refers to devices that enable direct action on specific grid assets.

It includes solutions such as Zillion iTRAFO, which enable transformer voltage regulation through remote control of the on-load tap changer, optimizing asset performance and quality of supply.

Operable infrastructure

This refers to solutions that transform the electrical panel into an active node within the grid.

It includes the Zillion NEULAN range, which enables feeders to be opened, closed, or reconfigured remotely, while allowing power supply and electrical protection to be managed in real time from a control centre.

Key range functions

- Remote voltage regulation
- Circuit control and feeder switching
- Integration with remote-control systems
- Remote management of protection devices
- Improved continuity of supply and operational resilience

04. Control and automation

04.1 Zillion NEULAN –

Range of automatic, automation-ready and hybrid low-voltage panels

The Zillion NEULAN range (range of automatic, automation-ready and hybrid low-voltage panels) is designed to enable the remote operation of the low-voltage grid, incorporating capabilities for direct actuation on circuits from a control centre.

These panels may or may not include monitoring capabilities, but their main value lies in their ability to be controlled remotely, enabling the power supply to be managed without requiring physical intervention in the field.

This range is currently under development and will be fully available by the end of 2027. It has been conceived as the next step in the evolution of the grid: the transition from monitored infrastructure to operable infrastructure.

Its design enables installation at any point in the grid where power supply control is required, transforming each panel into an active node capable of acting on power flow in real time.

Integrated into the Zillion ecosystem, these panels combine configuration flexibility, communications capabilities and compatibility with different architectures, supporting their progressive deployment across the existing grid.

FUNCTIONS AND FEATURES

Remote circuit operation

- Enables incoming and outgoing circuits to be opened, closed and operated directly from a control centre. This eliminates the need for field visits and significantly reduces incident response times.

Advanced electrical protection management

- The system enables protection curves to be configured and adjusted remotely, adapting them to actual grid conditions. This is particularly useful for validating or correcting the protection settings of feeders that are not properly configured, allowing tests, adjustments and configuration to be carried out without physical intervention while ensuring safe system operation.

Remote-control-ready architecture

- The panels are designed for integration with remote-control systems, enabling remote operation and bidirectional grid management.
- This supports the transition towards grid models in which assets are not only monitored but also operated remotely.

Optional monitoring integration

- Although their main function is operation, the panels can incorporate electrical monitoring capabilities (current, voltage, events, temperature, etc.), integrating sensing and control within a single solution.

Modularity and flexible configuration

- The solution can integrate different modules according to the requirements for electronic control, inputs and outputs, communications, and sensing.
- This enables the panel to be adapted to different operational scenarios without limiting its future evolution.

Compatibility with the Zillion ecosystem and open systems

- The panels are compatible with the Zillion ecosystem and can be integrated with SCADA systems, IT/OT platforms and third-party solutions, ensuring interoperability in heterogeneous environments.

MAIN USE CASES

Remote operation of the low-voltage grid

Automation-ready panels enable incoming and outgoing circuits to be opened, closed or operated remotely from a control centre, avoiding field visits and improving incident response times.

Advanced electrical protection management

The system enables protection curves to be configured and adjusted remotely, adapting them to actual grid conditions. This is particularly useful when protection settings are not optimized, allowing feeder behaviour to be validated, adjusted, and secured without field intervention.

Continuity of supply and incident response

They enable rapid action in the event of faults, reconnecting feeders, or reconfiguring the grid remotely to minimize the impact on the power supply.

Control of critical grid points

They can be installed at strategic locations where remote control of the power supply is required, such as critical secondary stations, areas with a high incidence of faults or grid switching points.

Transition towards operable grids

These panels provide an intermediate step between monitoring and full automation, enabling utilities to progress gradually towards active grid management models.

04. Control and automation

04.1 Zillion NEULAN –

Range of automatic, automation-ready and hybrid low-voltage panels

neulan 
LV Automated Panel

Partially
automated
panel



Zillion NEULAN
Low-voltage panel range
Protected by Pronutec

Fully
automated
panel



Zillion NEULAN
Low-voltage panel range
Protected by Pronutec



Automation

zillion

AL VOLTAGE AND SMART
GRIDS BY GORLAN

zillion@gorlan.com