Elettricità Evoluta dal 1904 ave®

ufficio stampa

AVEbus energy monitoring is now available for three-phase systems

This advanced and flexible system adapts to any environment, making energy management increasingly efficient.

With the update to **the 53ABC3S intelligent load control device**, which now allows for the management of three-phase electrical systems, the **AVEbus** energy control and monitoring system has become an even more versatile solution. This evolution culminates a design process that began with a clear objective: providing end users with intelligent tools **to optimize consumption and promote more conscious energy management**.

Studies conducted at the University of Oxford* show that **energy monitoring can reduce electricity consumption by 10-15%.** This concrete result is supported by motivational levers, such as gamification and social comparison, which encourage sustainable behavior.

AVE's energy control and monitoring proposal offers a complete range of devices:

- **53ABC3S** – AVEbus single/three-phase load control
- **53ABM3S** – AVEbus single/three-phase power meter
- **53ABR1S** – DIN-rail relay with AVEbus current sensor
- **44xABR1S** – Relay with AVEbus S44 current sensor

The system enables real-time control, measurement, and supervision of the electrical system, providing **direct feedback** to the end user. This allows the user to perceive the impact of his actions on consumption and adopt more efficient behaviors. At the same time, the system provides **indirect feedback** through hourly, daily, monthly, and annual monitoring of the controlled loads. This allows for effective comparisons with previous periods or external benchmarks, such as the national average.

Thanks to a recent update, the **53ABC3S single/three-phase load control device** enables advanced building energy management, including **anti-blackout functions** and the ability to **optimize self-produced energy**. Its extension to three-phase systems expands its range of applications, making it ideal for professional contexts where load distribution across multiple phases is standard. Thanks to the recent update, energy-saving algorithms are further integrated into the system, allowing for the creation of logical connections between thermoregulation and energy monitoring, for example.

A further evolution for the AVEbus energy monitoring system, which today stands as a complete technological solution designed to maximize awareness, reduce waste, and simplify the transition to more efficient, sustainable, and intelligent consumption.

Rezzato, February 26, 2026

www.ave.it

(*) Source: Sarah Darby - University of Oxford "The Effectiveness of Feedback on Energy Consumption"