

PLC AUTOMATION

AC500-eCo: The advanced DDC For building infrastructure automation solutions



AC500-eCo enables most flexible features to be realized with its advanced communication and programming options.

Today, managing buildings efficiently and reliably is not enough anymore. Modern buildings feature smart networking, offering occupants The latest AC500-eCo controller is designed for Direct Digital Control (DDC) use cases.

AC500-eCo provides not only a proven DDC feature set needed for standard building automation but also for advanced heating, ventilation and air conditioning (HVAC) and many more other tasks.

and stakeholders real-time information, allowing them to make swift decisions concerning the building's safety, energy consumption and comfort level as well as protecting their long-term assets. AC500 and AC500-eCo are used in many critical applications and have a proven and unprecedented record reliability.

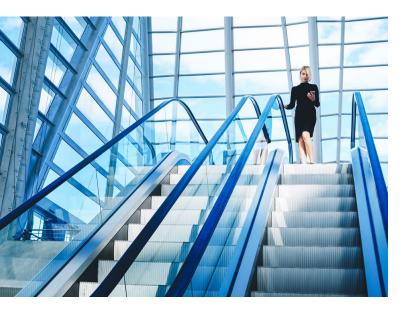


The scalability and expandability with DDC dedicated option boards and I/O Modules ensures an always cost-effective approach to each use case.



Certified and powerful BACnet client and server functionalities and KNX connectivity are only some of the unique connectivity combinations possible.

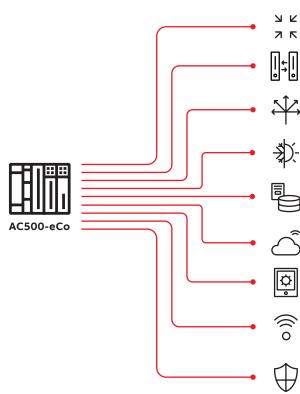






Monitoring and control

In commercial buildings the reliable operation and control of both escalators and elevators is important for a satisfying customer experience. AC500 can monitor the functionality of both applications and provides valuable information in case of malfunction, enabling service personnel to respond and fix errors rapidly. In case of problems AC500 can manage emergency lighting and provide 24/7 availability to protect people in the building. Access control to charging stations in parking spaces is another aspect of AC500, which allows only those users or customers who are authorized. During charging the AC500 collects and stores useful data so that energy consumption in the building can be monitored and managed locally, remotely or via cloud services.



Economical, energy efficient, small footprint

I/O hot swap, network redundancy

Gateway functionality with several remote/ telecontrol protocols

Versions for extended operating temperature from -40 °C up to +70 °C

Data collector and concentrator Data logging and data storage

MQTT cloud connectivity

HTML5 integrated WEB interfaces

BACnet, KNX, Modbus, IEC 60870-5-104, IEC 61850, DNP3, OPCDA/UA, SNMP, NTP

Cryptographic tools and security functionalities

contained therein. Any reproduction, disclosure to third parties or utilization of its contents – in whole or in parts – is forbidden without prior written consent of ABB.

© Copyright 2024 ABB. All rights reserved. Specifications subject to change without notice.

ABB AG Eppelhei

Eppelheimer Straße 82 D-69123 Heidelberg / Germany Tel.: +49 62 21 701 1444 Fax: +49 62 21 701 1382 We reserve the right to make technical changes or modify the contents of this document without prior notice. ABB does not accept any responsibility whatsoever for potential errors or possible lack of information in this document. We reserve all rights in this document and in the subject matter and illustrations

new.abb.com/plc