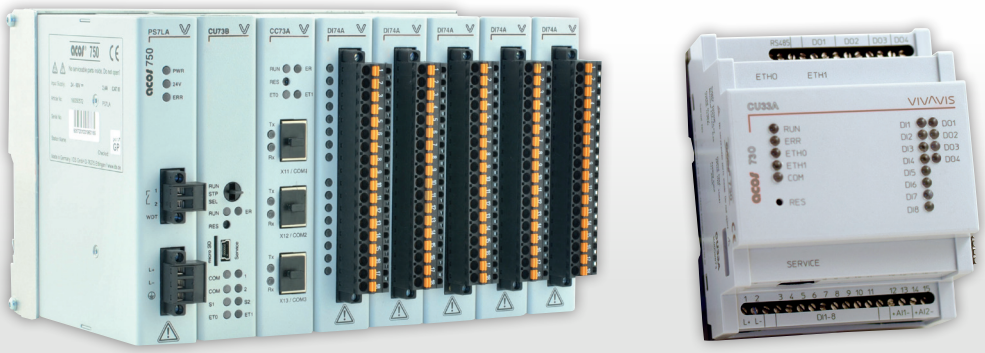
VIVAVIS

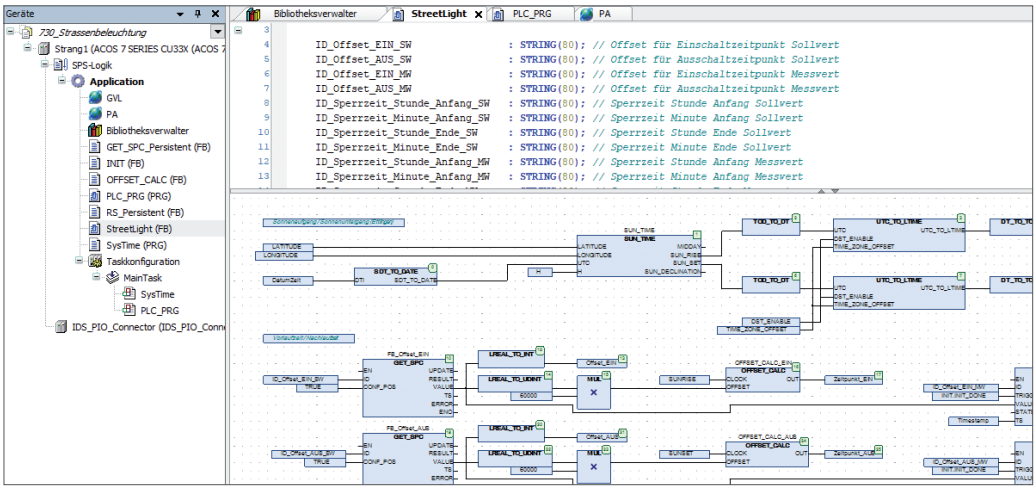
DECODING THE FUTURE



Automation with devices of the ACOS 7 series

High-performance, scalable and configurable

VIVAVIS **ACOS 7** device series offers embedded controller and soft PLC for secure operation especially within critical environmental conditions. **ACOS 7** devices provide high-performance automation as well as telecontrol functions and thus provide any kind of suitable control for supply facilities and industrial plants.



Why you should use devices of our ACOS 7 series
ACOS 7 devices enable extensive automation for individual components of plants or even complex processes. Our products adapt to any plant size, are configurable and have a very robust design.

ACOS 7 products stand out as they provide high withstand voltage and an extended temperature range from -20°C to +70°C. They also offer electromagnetic compatibility and are thus suitable for use in industrial, residential, commercial or light-industrial environments. Of course, devices support IT security and encryption standards such as IPsec, OpenVPN or IEC 62351-3 (TLS) as well as state-of-the-art telecontrol and automation standards.

We use CODESYS®[1] V3, which offer you the highest level of security even for programming.

The linkage between local control to central SCADA system thus becomes easy and secure at reasonable costs.

[1] *CODESYS® is a registered trademark of CODESYS GmbH.*

You can use our soft PLC for

- drinking-water supply (wells, above ground tanks, water pressure boosting stations)
- gas, district heating and heating installations
- hydro-electric power plant and weirs
- flood retention installations and wastewater pumping stations
- supply of building complexes for critical infrastructures (data centres, airports, hospitals, etc)
- industrial areas and plants

Overview

Automation for any size of installation

Indipendent

- Visualization and operation on site
- Local control in accord with central control technology

Scalable

- **ACOS 730** – our high-performance mini control box
- **ACOS 750** – our robust central control even for complex tasks
- Decentralized I/Os via EtherCAT®[2]

Secure

- IT security in compliance with latest standards for system hardening and transmission (IPsec, OpenVPN or IEC 62351-3 TLS)
- Conformity with ISO/IEC 27001/9
- Suitable for critical infrastructures
- Integration into patch processes

Flexible

- Connection of plant components to existing telecontrol and control systems via IEC 60870-5-101/-104 protocol
- Implementation of independent controls
- Joined control of plants on higher levels
- Warm standby of redundant CUs

Standardized

- Programming in compliance with IEC 61131-3 with CODESYS® V3
- Telecontrol protocols IEC 60870-5-101/-104
- Field bus protocols IEC 60870-5-103, Profibus DP IEC 61850, Modbus®[3] RTU/TCP

Interoperable

- Predefined functional parameters and extensive examples
- Adaptable to individual plant requirements

[2] EtherCAT®, EtherCAT G®, EtherCAT P®, Safety over EtherCAT®, are registered trademarks and patented technologies, licensed by Beckhoff Automation GmbH, Germany.
[3] Modbus® is a registered trademark of Schneider Electric, licensed to the Modbus Organization, Inc.

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