



NASweb is an innovative solution that combines access control, intrusion signaling, building automation, and video surveillance into a single, integrated system. The device is based on an advanced microprocessor platform with a built-in web application, providing users with intuitive operation and access via any web browser—without the need to install additional software. The system was designed for facilities requiring a high level of security (office buildings, server rooms, industrial plants, critical infrastructure sites), but thanks to its modular design and versatility, it is also suitable for smaller installations (public buildings, warehouses, parking lots).

Integration of functions in a single device

NASweb combines the functionality of an access controller, alarm panel, HVAC automation controller, and event recording module with video. Fewer devices mean lower purchase, installation, and maintenance costs.

Flexibility and scalability

With support for scripting and a wide range of inputs/outputs, the system can be easily tailored to the specific requirements of any facility.

IP network operation

NASweb operates over TCP/IP protocols, supports HTTPS, integrates with Home Assistant and haos.app, and provides remote access via VPN.

System synergy

The interconnection of functions provides capabilities that independent systems cannot offer:

- an access card can simultaneously unlock a door and disarm an alarm zone,
- the system automatically arms a zone after the last user leaves,
- temperature monitoring controls ventilation and heating operations,
- events are documented along with a snapshot from the camera.

FEATURES

Access control

- support for proximity cards, PIN codes, biometrics, and vehicle license plates (ANPR);
- flexible permission management: schedules, inheritance, exceptions, and overriding rules;
- support for airlock scenarios (e.g., in high-security zones);
- logging of every event (entry, exit, unauthorized access attempt) with the option to link it to a camera snapshot

Intrusion and Hold-up Alarm (SSWiN)

- ability to define multiple alarm zones;
- arming and disarming via card, PIN, or automatically;
- support for internal and external sirens;
- support for alarm scenarios (e.g., SMS notification in case of tampering)

Video Surveillance

- integration with IP cameras (up to 4 simultaneously);
- campics feature – linking events (e.g., door opening, alarm) with video footage;
- support for ANPR cameras (license plate recognition);
- quick verification of events in the archive

Automation and HVAC

- temperature control in three logical states: below, within, above set range;
- control of heating, cooling, and ventilation devices;
- integration with 1-Wire temperature and humidity sensors;
- capability to build advanced environmental control scenarios

Notifications and responses

- sending SMS and email notifications;
- events that trigger alerts: user entry/exit, insufficient permissions, alarm, tampering, power issues, doors left open too long, PIN errors;
- integration with external systems (TCP/IP, LDAP, Home Assistant)

Scripting and event logic

- built-in scripting language (similar to JavaScript);
- defining “event → action” rules;
- support for time-based conditions and recurring events;
- ability to create custom automation scenarios

SYSTEM ARCHITECTURE AND INTERFACE

Browser Access: Interface optimized for computers, tablets, and smartphones.

Roles and Permissions: Separation of operator and user functions.

Real-Time Monitoring: View the status of inputs/outputs, logs, cameras, and events.

Easy Configuration: Administrator panel for network management, updates, and diagnostics.

NASweb is also available in a haos.app variant, which additionally serves as:

- a host for Home Assistant,
- a network switch,
- a compact SOHO automation hub.

Benefits:

- reduced purchase and operating costs,
- lower energy consumption,
- space savings in the RACK cabinet,
- reduced waste (less plastic, metal, and electronics).

TECHNICAL SPECIFICATIONS

CERTIFICATION	CE
STANDARD COMPLIANCE	PN-EN 60839-11-1 / security grade 3 and 4
POWER SUPPLY	12 VDC + PoE+ (redundancy, parallel operation)
POWER CONSUMPTION	max. 250mA
PROCESSOR	ARM Quad-Core
RAM	4GB
INTERNAL MEMORY	32GB eMMC
DISPLAY	1,4"
NETWORK	1× uplink FastEthernet (PoE+) 2× downlink FastEthernet
READERS	up to 4 (RS-485 OSDP)
CAMERAS	up to 4 (snapshot / ANPR)
RELAY OUTPUTS	6× (2A @ 12VDC)
CONTROL INPUT	power relay for device reset
DIGITAL INPUTS	16x
TERMINALS	detachable blocks
USB	memory and USB devices
OPERATING SYSTEM	Embedded Linux
CLOUD INTEGRATION	VPN to haos.app
HOME ASSISTANT	zones, inputs, outputs, thermostat
ENCLOSURE	DIN rail (material: ABS)
DIMENSIONS [mm]	150x80x28
WEIGHT [g]	ok. 300 PCB
OPERATING TEMPERATURE	-10°C -+55°C
STORAGE TEMPERATURE	-20°C -+70°C
RELATIVE HUMIDITY	under 80%

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