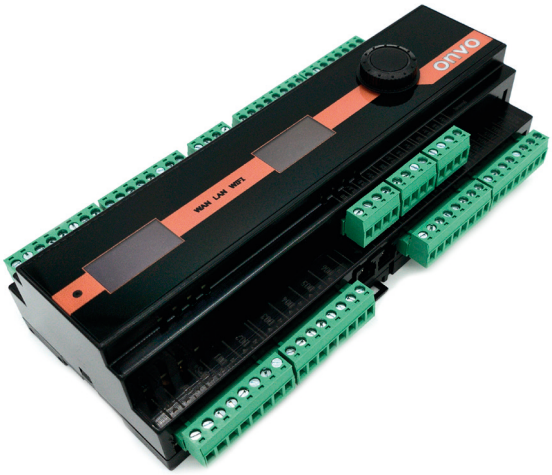
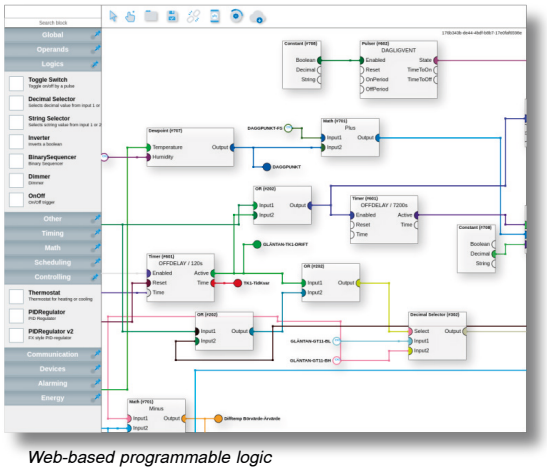
onvo
One controller for all

Nila Controller One MX



One high-end controller - multiple choices

The Nila Controller One is a series of web-based building controller devices.
They combine effortlessly configurable templates with advanced logical programming to meet most building control and automation needs.
All devices can work in both standalone and cloud modes.
The entire line is top quality with powerful hardware and intelligent software.
Built using only high-end components and thorough development in order to deliver the market's most advanced and affordable building controlling units.



Web-based programmable logic

Nerd talk

The controller is based on a powerful microprocessor to handle high-speed I/O control, and a separate Linux module for handling the cloud software and user interface.
Super-high-speed communication between the microprocessor and Linux ensures low latency for analog and digital inputs/outputs.
Digital I/Os is read and written up to 100 times per second.
Analog I/Os is read and written twice per second after filtering.
For easy installation, high-quality, large, and easy-to-use screw clamps on all terminal connections.
End-to-end AES & RSA encryption for secure communication.
Software built using Nila Core framework, a fully web-based framework for easy creation of powerful end-user tools and graphical interfaces.

Functions

- Linux OS with builtin router & firewall
- Nila Core Software
- Cloud connection (access from anywhere)
- Standalone mode (no cloud connection)
- Web-based graphical interfaces
- Freely programmable logic
- GUI for creating mobile apps for end-user.
- "One-click setup" with templates and app-store
- Modbus (master and slave)
- Unlimited advanced calendars
- Battery backed-up high precision RTC
- 2x white monochrome OLED displays
- Programmable RGB LEDs on the front panel
- Alarm notification (Email, SMS, front panel RGB LEDs)
- Local (microSD card) and cloud data point logging

Technical specification

Dimensions: 210x90x58mm (DIN 43880)
Mounting: DIN rail (optional wall mount brackets)

Supply voltage: 12-24 VAC/VDC
Rated power: 15W (when powering external devices)

Digital inputs: 8 (G or G0 input)
Digital outputs: 12 (relays 1A 250VAC, 30VDC)
Analog inputs: 14 (0-10V or Ω)
Analog outputs: 8 (0-10V rail-to-rail 20mA/channel)

Serial ports: 3 (RS485 Half-duplex)
Highspeed bus: 1x IN, 1x OUT
USB: 1x (2.0 Host)
Ethernet: 2x LAN, 1x WAN
WIFI: Yes