

Monitoring and remote control

Designed for Data-Center's and IT-Room application

NIDUS-R is an expansion platform for ROBIN modules.

Its main feature, consists in monitoring a wide variety of sensors and react to pre-defined criteria.

The **NIDUS-R** platform, was developed with the objective of integrating functions normally available in various devices. The definition of criteria is user-friendly in that it is intuitive and of easy configuration.



Characteristics - Hardware

- ✓ Up to 32 external sensors (Modbus/ASCII)
- ✓ 1 analogic output 0-10V
- ✓ 8 digital outputs (NPN or PNP with external Power)
- ✓ 20 digital (NPN or PNP with external Power)
- ✓ 1 Ethernet Port
- ✓ 1X RS232 (GSM line)
- ✓ 1X RS485 (External sensors over Modbus-ASCII or RTU)
- ✓ Server/Client function

Environmental monitoring solution and remote control of In/Out. The device can register data and send all type of alarms.

- Integration of SCADA and CLOUD systems. Various communication protocols available.
- SIMPLE WEB Interface and easy understanding.
- Integration of various external devices via different communication protocols Modbus/RTU, ex: Analyzer/energy counters, water, weather stations, etc. ...
- Stores up to 500'000 records. The records may be individually configured.
- Intelligent system to transfer records

Characteristics - Firmware

- ✓ Configuration via built-in WEB browser
- ✓ User authentication
- ✓ Direct and programmed reaction of events
- ✓ Remote control of digital outputs
- ✓ Communication Modbus/RTU w/ external devices
- ✓ Easy integration w/ external systems (XML)
- ✓ Thermostatic function
- ✓ Verification of state of devices in network (Watchdog)
- ✓ Graphic visual in real time
- ✓ Individual parameterization of In/Out state (Alarm e records)
- ✓ Internal memory of 120'000 records
- ✓ Protocols: TCP/IP, UDP/IP, SNMP, HTML, XML, PUSH/XML, Modbus (RTU and ASCII), SMS, E-mail and BACNET/IP

The screenshots show the NIDUS-IT web interface. The top screenshot displays a summary of sensor data with a table and a line graph. The middle screenshot shows configuration settings for a 'Ventilador' output, including options for enabling, naming, and setting delays. The right screenshot shows user management settings, including user names, SMS numbers, and access rights. The bottom screenshot shows configuration for analog/digital output reactions, including setting triggers and durations.

APPLICATION:

Where exists the need to monitor, register and control various types of sensors such as:

- Agriculture: Greenhouse management, irrigation systems, etc. ...
- Industry: Food, Pharmaceutical, Hospital, etc ..
- Buildings: Security management, HVAC, Energy management, etc ..