

NEVOD+ M

Telemetry data acquisition and control module



Features

- 4 analog differential input channels with group isolation
- 8 digital input/output channels (direction configurable)
- RS-485 interface, up to 115200 bps
- LCD screen
- 5 buttons for menu navigation
- Compact design
- DIN-rail mountable

Applications

- Data acquisition and telemetry systems, including wireless telemetry
- Water, oil, gas industries
- Factory automation
- Sensor values display

Description

Nevod+M is a multipurpose analog/digital module for data acquisition applications, including telemetry. This module is a cost-effective solution for industrial measurement and monitoring applications.

Module is equipped with 4 differential 16-bit programmable range inputs, and 8 digital input/outputs with programmable direction.

Inbuilt LCD screen and 5-key keyboard allows easy on-site module setup with a menu navigation, and allows to view the values of signal sources connected. Signal scaling is also available.

Optical isolation provides 3000 VDC isolation between the analog inputs and the module, protecting the module and peripherals from damage due to high input-line voltages.

Nevod+M uses a microprocessor-controlled sigma-delta A/D converter to convert sensor voltage or current into digital data. The digital data is then translated into engineering units. When prompted by the host computer, the module sends the data to the host through an RS-485 interface. The host can also read/set the digital inputs/output of the module.

Custom versions of Nevod+M are available upon request.

Specifications

Analog Input	
Number of inputs	4 differential
Input type	V, mA
Input range	± 20 mA, 0...20 mA, ± 10 VDC, ± 5 VDC.
Accuracy	$\pm 0.1\%$ or better
Isolation voltage and type	3000 VDC, group
Digital Inputs / Outputs	
Number of inputs and outputs	0, 4 or 8, programmable
Logic levels for inputs	"0" - $< 1,7$ B "1" - 3.9...30 VDC
Outputs type	Open collector, pull-up current < 100 mA
General	
Interface	RS-485, 9600/19200/38400/115200 bps, up to 1200 meters
Power	10...30 VDC, 2W@12 VDC
Dimensions	110 x 70 x 50 mm
DIN-rail type	35 x 7.5 mm

Order information

Basic products:

- NEVOD+M: data acquisition module

Related products:

- AGP-12-2: DIN-rail power supply 12 V, 2 A
- AGP-24-1: DIN-rail power supply 24 V, 1 A
- NEVOD-5: fixed-frequency telemetry radio modem
- NEVOD-5s: synthesized multiple channel telemetry radio modem