NDI 40 DATA LOGGER

Technical specifications
- analog signal 0/4 … 20 mA
- 1,4 or 8 channels
- 24 V DC power converter
- RS-485 (Modbus RTU) interface
- sampling frequency from 0.125 sec to 5 min (selectable)
- Software for parameterization and archiving
- setting buttons on the front panel
- buzzer
- 2MB built-in memory
- 2 OC contacts
 Options
- signal PT100/ PT500/ PT1000
- USB port, 8MB built-in memory

NDI 40 displays current values and technological process parameters and trends graphically. All measured parameters must be 0-20 mA or 4-20 mA (e.g., pressure, level, humidity, temperature, force, etc.).

The device stores recorded measurement results in its memory. The memory is capable of keeping:
- over 500,000 entries (2 MB) - device with RS-485 interface.
- over 2,000,000 entries (8 MB) - device with RS-485 and USB port.

The device has up to 8 channels of 0-20 mA (4-20 mA) current signals. Each signal can be configured and described. The internal analog-to-digital converter is a 12 bits version, which guarantees good measurement results. Besides, each input channel bears an alphanumeric description (text).

The logger features a galvanically isolated RS-485 interface programmed through ModBus RTU transmission protocol. Thus, you can unite a number of digital indicators into a network, collecting data remotely from each block and having an opportunity to configure them. RS-485 instead of RS-232 means a high data transfer rate.

Optionally, the data logger can have a USB port to send data to flash drives.

This method makes data transfer easier, since there is no need to connect to a PC through the RS-485 interface.

Also, the data flows through USB 10 times faster than through the RS-485 interface.

The built-in switching power supply allows delivering power to the units, 85 ... 260 V AC / DC or 16 ... 35 V AC, 19 ... 50 V DC, depending on the version.

Voltage for powering transmitters connected to the rear terminals: 24 V DC ± 5% / max 200 mA.

Another great advantage of this indicator is the 128 x 64 pixels backlit display. It can show trend graphs for each channel separately. Different modes of operation allow finetuning visualization depending on your requirements.
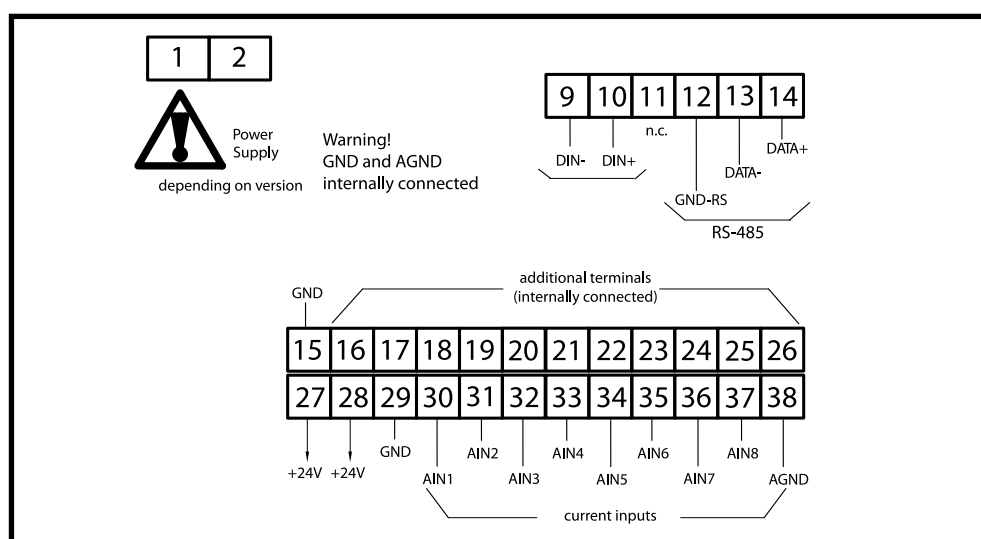
There are 6 buttons on the front panel that enable setting the device up. The help menu with detailed description makes the process fairly simple. However, due to the large number of parameter settings, it is recommended to use the supplied PC software configurations.

NDI 40 indicator on BD SENSORS RUS website

TECHNICAL FEATURES   NDI 40

INPUT SIGNAL	
Number of channels	1,4 or 8
Standard:	0/4…20 mA
Optional:	PT100/ PT500/ PT1000

POWER	
Power supply	Standard: 85…260 V Optional: 16 ... 35 V AC / 16 ... 35 V DC
Power consumption	Standard: 7 V max: 12 V

POWER TO TRANSMITTERS	
Standard	24 V DC+5%, max 200 mA

SWITCH OUTPUT	
Contacts	2 independent outputs
Switching-on voltage	Max 24 V AC

COMMUNICATION	
Interface	RS-458 (Modbus RTU) Optional: USB port
Transmission speed	1200-115200 bps
Data storage	Standard:2 MV (version without USB-2.0 port) Optional: 8 MV (version with USB 2.0 port)

PROTECTION		
For version without USB port	IP 65	
For version with USB port	Standard:IP 40	Optional: IP 54 (with lockable door)

TEMPERATURE LIMITS	
Electronics / components[0 C]	0…50
Storage[0 C]	-10…70

ELECTRICAL SAFETY	
ELECTRICAL SAFETY	EN 61010-1
EMC	EN 61326

OTHER	
Accuracy (25 °C)	±0,1 of span, tolerance (0…50 °C): 0,25% of span max
Housing material	NORYL – GFN2S E1
Housing dimensions	96x 96 x 100 mm
Housing material	NORYL – GFN2S E1

ACCESSORIES	
Software	Visualization (table or graph) and stored data retrieval software NDI 40. Data imports via RS-485 interface.

VERSION
Lockable front door, transparent prevents damage to the screen and unauthorized access
Converter RS 485/RS 232

Connections / Electrical connections

BD SENSORS RUS
117105, Moscow, Varshavskoe shosse, 37A
Tel: +7 (495) 380-16-83   zakaz@bdsensors.ru
www.bdsensors.ru   sales@bdsensors.ru

NDI 40 ORDERING CODE

	NDI 40	X	X	X	X	X	XXX	XXX
VERSION								
1 channel of input signal		1						
4 channels of input signal		4						
8 channels of input signal		8						
INPUT SIGNAL								
0/4…20 mA			1					
PT100, PT500, PT1000			2					
Other			9					
POWER								
85…260 V				1				
16…35 V AC /19…50 V DC				2				
SWITCH OUTPUT								
2 switch outputs					1			
INTERFACE								
Standard:RS-485						1		
RS 485+USB port						2		
DISPLAY OF INFORMATION								
Neutral							100	
other							999	
VERSION								
standard								00R
other								999
Optional								
Software S-Toolkit					SW-LOG			
Lockable door					Z900002			
Converter RS-485 / RS-232					CM-2			

Example
NDI 40 4-1-2-1-2-100-00R