



N32UDIGITAL PANEL METER

- Multi-purpose input for measuring: temperature, resistance, standard signals.
- Two-line LCD display with high contrast and built-in backlighting.
- Possibility of displaying the measured value and time simultaneously or an uncalculated quantity or unit (programmable unit of measured quantity).
- Meter programming from keyboard or through the RS-485 interface by means of the free eCon software.
- 4 alarm outputs with signalling on LED diodes, working in 7 different modes (option).
- Conversion of any measured value into an analog signal 0/4...20 mA or 0...10 V (option).
- Storage of minimal and maximal values for all measured quantities.
- Supply of object transducers.
- 32-point individual characteristic for the measured value.
- Mathematical functions for converting the measured value.

FEATURES INPUTS OUTPUTS GALVANIC ISOLATION OUTPUTS GALVANIC ISOLATION OUTPUTS FASSWORD FOR SUPPLY FOR SUP

DATA VISUALISATION



lub



HW





Two-line display. Simultaneous preview of the measured value (top line) and the input signal not scaled (bottom line).

Programmable measurement unit chosen from 56 variants available in the menu.



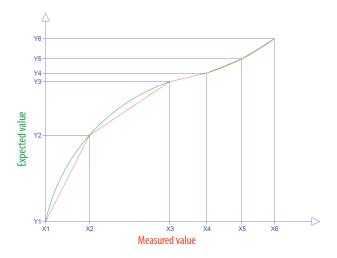
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Preview of current time on the bottom line of the display. Real-time clock with automatic winter/ summer time change function.

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INPUT SCALING



Conversion of the measured quantity based on 32-point individual characteristics. It allows for the mapping of signals from objects or sensors with non-linear characteristics.











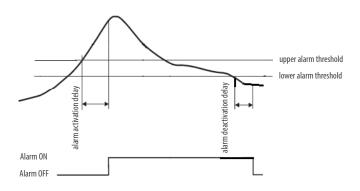
Conversion of the measured quantity by means of mathematical functions: \sqrt{x} , x^2 , 1/x, $(1/x)^2$, $\sqrt{(1/x)}$

ALARM FUNCTIONS



1 or 4 relay outputs with the indication on the display as an active alarm number.

Each alarm can be configured to operate in one of 7 modes, including REG mode for alarm control through RS-485 Modbus.



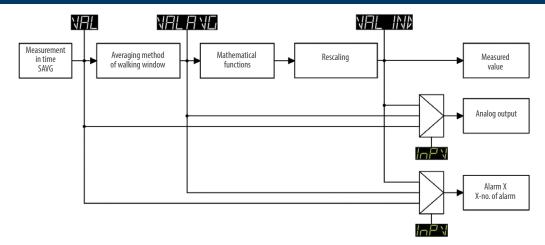
 $t \ge$ time delay --> Alarm activeted For alarm operation both conditions (value and time delay) must be met

Programmable alarm signal holding.
Once the alarm event has ceased,
the alarm status marker flashes
on the display until it is reset
by the user.

Individually programmable parameters for alarm activation and deactivation delay; the function can be used to prevent "false" alarms.



ADVANCED MEASUREMENT CONVERSION FUNCTION



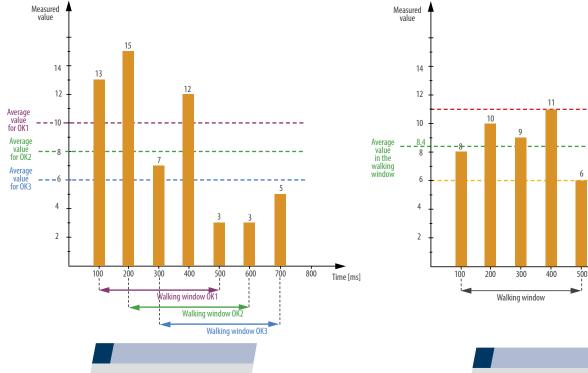
The measured value can be converted in series and the result can be displayed. After each conversion step, the signal can be used for retransmission on the analogue output or as an alarm source.

In practical use, the meter can read the value from an object-oriented transmitter and display the actual value within a limited range, e.g. pressure, level, etc. At the same time, the input signal not scaled can be retransmitted to the PLC.

This function can be useful in applications where the signal is dynamic. The display can show the values averaged over time (easier signal observation).

On the analogue output instead, you can retransmit the signal without additional delays this also applies to the alarm outputs.

WALKING WINDOW ALGORITHM



Programmed averaging time according to the walking window algorithm with a set averaging time. This function is useful for measuring high-dynamic signals.

Ability to measure the average, minimum or maximum value when displaying the walking window.

Maximum value in the walking window

Minimum value in the walking window

Time [ms]

600

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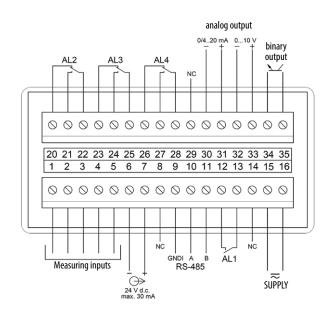


TECHNICAL DATA						
INPUTS						
Input type	Maximal measuring range		Class	Basic error		
Pt100	-205855°	-205855°C (-200850°C)				
Pt1000	-205855°C (-200850°C)					
400 Ω	0410 Ω (0400 Ω)					
4000 Ω	04010 Ω (04000 Ω)					
Thermocouple of J type	-2001200 °C (-1001200 °C)					
Thermocouple of K type	-2001370 °C (-1001370 °C)			- due to automatic compensation of the reference junction temperature <1°C		
Thermocouple of N type	-2001300 °C (-1001300 °C)			- due to automatic compensation of the reference junction temperature < 1 C		
Thermocouple of E type	-2001000 °C (-1001000 °C)			- due to automatic compensation of the cable resistance for thermoresistors $<$ 0.5°C		
Thermocouple of R type	-501768 °C (-501760 °C)		0.1			
Thermocouple of S type	-501768 °C (-501760 °C)			- due to automatic compensation of the cables for resistance measurement $<$ 0.2 Ω		
Voltage input 10 V	-1313 V (-1010 V)			- from temperature changes 50 % of the class/ 10 K		
Current input 20mA	-2424 mA (-2020 mA)					
Current input 420 mA	3.622.0 mA (420 mA)					
Voltage input 60 mV						
Voltage input 150 mV	-1063 mV (060 mV) -155155 mV (-150150 mV)					
3 .						
Voltage input 300 mV		nV (-300300 mV)		. / 20		
Current time	00.0023.	59		+/-20 ppm		
OUTPUTS						
Output type					Kemarks	
• 1 x NO contacts, load-carrying capacity 5A / 250 V a.c.; 5A / 30 V • 3 relays with changeover contact, load-carrying capacity 6A / 26A / 30V d.c.; 0,15A / 250 V d.c.						
Analog output	• current programmable 0/420 mA, load resistance \leq 500 Ω • voltage programmable 010 V, load resistance \geq 500 Ω				Error of analog output: 0.1% of the set range Additional error from temperature changes: 50% of the class/10K	
OC output	OC type, passive npn, 30 V d.c./30 mA				voltageless output	
Auxiliary supply 24 V d.c./ 30mA					3	
DIGITAL INTERFACE						
		Transmission protocol Mode		Baud rate		
RS-485		MODBUS RTU	8N2, 8E1, 801, 8N1		2.4, 4.8, 9.6, 14.4, 19.2, 28.8, 38.4, 57.6, 115.2 kbit/s	
EXTERNAL FEATURES						
Readout field		1 row: 6-digits; digits height 12.85 mm 2 row: 5-digits; digits height 7.5 mm		high contrast LCD with backlight and programmable measuring unit		
Weight Overall dimensions		< 0.25 kg 96 x 48 x 93 mm		mounting	mounting hole 92 ^{+0.6} x 45 ^{+0.6} mm	
Protection grade (acc. to EN 60529)		from frontal side: IP65			from terminal side: IP 10	
RATED OPERATIN	· ·					
Supply voltage		85253 V a.c. (40400 Hz), 90300 V d.c. 2040 V a.c. (4565 Hz) / 2060 V d.c.		power cons	power consumption < 6 VA	
Temperature		ambient: -25 <u>23</u> 55°C		"	storage: -3070°C	
Relative humidity Operating position		2595%		without cor	without condensation	
Operating position External magnetic field		0400 A/m				
SAFETY AND COM	PABILITY					
Electromagnetic compatibility		noise immunity noise emissions			acc. to EN 61000-6-2	
Isolation between circuits		basic		acc. to Liv 0		
Polution level		2				
Installation category				acc. to EN 6	acc. to EN 61010-1	
Maximal phase-to-earth voltage		for supply circuits : 300 V				
Altitude a.s.l.		for other circuits: 50 V < 2000 m				
MILITURE 4.5.1.		< 2000 III				

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CONNECTION DIAGRAMS

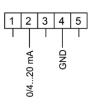


 $Description\ of\ signals\ on\ the\ connection\ strips$

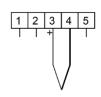
Standard signals 0...10 V (range -13...13 V)



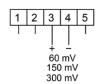
Standard signals 0/4...20 mA (range -24...24 mA)



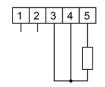
Thermocouples, thermoelectric sensors (thermocouple)



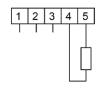
Standard shunts: 60 mV, 150 mV, 300 mV (measuring range respectively: -75...75 mV, -155...155 mV, -310...310 mV



Resistance sensors or resistor in a three-wire system

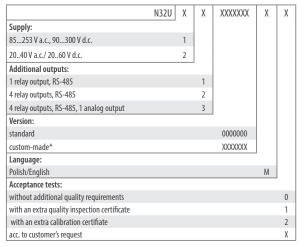


Resistance sensors or resistor in a two-wire system



Meter connection

ORDERING CODE



* only after agreeing with the manufacturer

ORDERING EXAMPLE:

N32U 13000000M0 means N32U meter with supply 85... 253 V a.c.,90...300 V d.c., with 4 relay outputs, RS-485 interface and 1 analog output, in standard version, polish-english language version, without additional quality requirements.



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B2 06030A0A01A1M0 B2 06040A0A0100M0 B2 0604A00A0100M0 B2 06050A0A01A2M0 B2 0605A00A01A1M0 B2

0606A00A0100M0 B2 060800AB01B3M0 B3 15010A0A0100M0 B3 150200AD01A2M0 B3 15025A0A0100M0 B3 15050A0D01A2M0

B3 1505A00A01A1M0 B3 15060A0D0100M0 B4 0502K00B01B5M0 B4 05050A0D01A2M0 B5 075300AB01B1M0 B5

07575A0D01A2M0 B6 10010A0A0100M0 B6 100150AD0100M0 B6 10020A0A01A1M0 B6 10050A0D01A2M0 BA271NE4120000

BA271NE4160000 BA271NE4170000 BA391NE4050000 BE271NF4162000 BE271NF4170000 BE271NF4500000 BE391NF4122000

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