

N300 DIGITAL PANEL METER

Features

- three-colour display
- LPConfig Program
- MOD BUS
- RTC
- 21 points character.
- Password protection

IP65

Inputs

- Hz
- Waveform icons

Outputs

- 0/4...20 mA
- 0..10 V
- U
- 2x
- 2x

RS 485

Galvanic Isolation

- Relay output icons
- Supply
- RS 485

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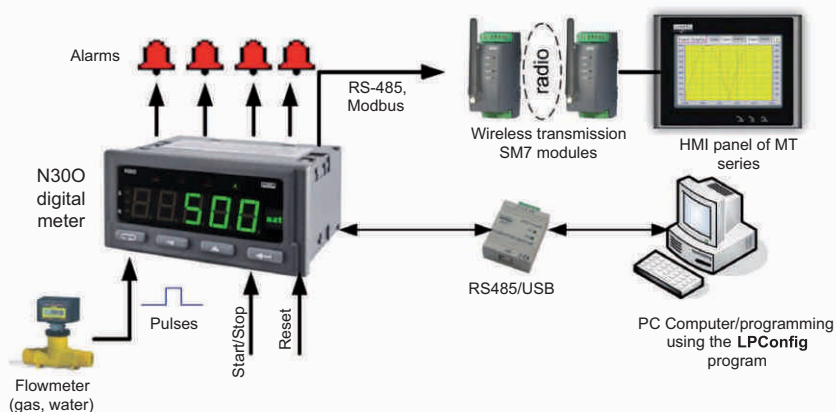


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- Measurement: number of pulses, frequency, rotational speed, period, worktime counter.
- Two impulse counters, co-operation with encoders.
- Counter of actual and total values.
- 3-colour display (14 mm high), programmable in 3 ranges of the measured value.
- Meter programming from keyboard or through the RS-485 interface by means of the free LPConfig program.
- 4 alarm outputs with signalling on LED diodes, working in 6 different modes.
- Conversion of any measured value into an analog signal 0/4...20 mA or 0...10 V.
- Storage of minimal and maximal values for all measured quantities.
- Supply of object transducers (option).
- 21-point individual characteristic for the measured value.
- Mathematical function.
- Firmware updating (option).

Example of Application



Measurement and visualization of the water/gas flow. The measured value is transmitted to the operating panel via radio modules

Inputs

Input signal:	Input kind	Indication range	Maximal frequency of input signal	Class	Remarks
Voltage 5...36 V d.c.	Number of pulses IN1/IN2	-19 999..99 999	10 kHz/ 8 kHz	±1 pulse	with signal filtering 2 kHz
	Frequency < 10 kHz	0.05..99 999 Hz	100 kHz	0.01	with signal filtering 100 kHz
	Frequency > 10 kHz	1...99 999 Hz (measuring range up to 1 MHz)	1 MHz	0.01	
	Rotational speed	0.05...99 999 [rpm]	100 kHz	0.01	
	Period t < 10 s	0.0001...11 [s]		0.01	
	Period t < 10 s	0.0001...3600 [s]		0.01	
	Worktime counter	0...99 999 [h]		0.5 sec/ 24 hours	
	Encoder	-19 999...99 999	10 kHz		with signal filtering 2 kHz
Current time	00.00...23.59		0.5 sec/ 24 hours		

Outputs

Output kind	Properties	Remarks
Relay output	<ul style="list-style-type: none"> • 2 x relays, voltageless NOC contacts load-carrying capacity 250 V a.c./ 0.5 A a.c. • 2 x relays, voltageless switched contacts load-carrying capacity 250 V a.c./ 0.5 A a.c. 	
Analog output	<ul style="list-style-type: none"> • current programmable 0/4...20mA, load resistance ≤ 500 Ω • voltage programmable 0...10 V load resistance ≥ 500 Ω 	Error of analog output: 0.2% of the set range Additional error from temperature changes: 50% of the class/10K
OC output	• typu OC, passive npn, 30 V d.c./30 mA	
Auxiliary supply	• 24 V d.c./ 30mA	

Digital Interface

Interface type	Transmission protocol	Modes	Baud rates
RS-485	MODBUS RTU	8N2, 8E1, 8O1, 8N1	4.8, 9.6, 19.2, 38.4, 57.6, 115.2 kbit/s

