

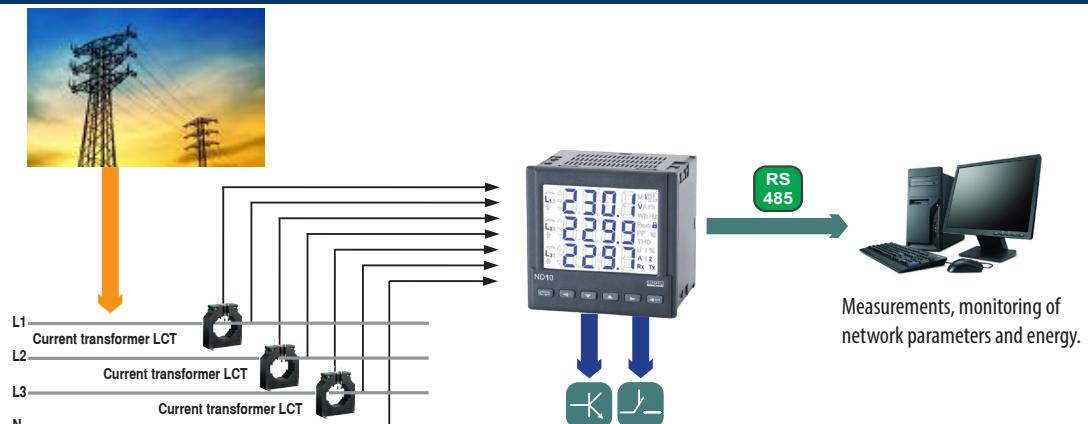
ND10 - METER OF NETWORK PARAMETERS



- Meter supply from measurement circuit
- Measurement of basic power quantities:
 U_{L-L} , U_{L-N} , I_n , f , P , Q , S , PF , $\text{tg}\varphi$, $\cos\varphi$, φ , E_p+ , E_p- , E_{qL} , E_{qC} , THD
- 2 alarm outputs
- Pulse output for active energy
- Interface RS485 Modbus Slave (option)
- LCD display 3.5"
- Protection grade from the frontal side IP65



EXAMPLE OF APPLICATION



FEATURES		MEASURED QUANTITIES AND MEASURING RANGES							
	eCon software	Measured value	Indication range*	Measuring range	L1	L2	L3	Σ	Basic error
	RTC	Current In	1 A 5 A	0.00 ... 1.5kA 0.00 ... 60 kA	0.005 ... 1.200 A~ 0.025 ... 6.000 A~	●	●	●	±0.2% r
	MOD BUS	Voltage L-N	57,7 V 230 V 290 V	0.0 ... 230.8 kW 0.0 ... 1.012 MV 0.0 ... 1.200 MV	50 ... 64 V~ 195 ... 253 V~ 246 ... 300 V~	●	●	●	±0.2% mv
	IP65	Voltage L-L	100 V 400 V 500 V	0.0 ... 440 kW 0.0 ... 1.752 MV 0.0 ... 2.000 MV	85 ... 110 V~ 340 ... 440 V~ 425 ... 520V~	●	●	●	±0.5% mv
	THD	Frequency		47.0 ... 63.0 Hz	47.0 ... 63.0 Hz	●	●	●	±0.2% mv
	CIL LCI	Active power	-9999 MW ... 0.00 W ... 9999 MW	-1.52 kW ... 1.0 W ... 1.52 kW	●	●	●	●	±0.5% r
INPUT		Reactive power	-9999 Mvar ... 0.00 var ... 9999 Mvar	-1.52 kvar ... 1.0 var ... 1.52 kvar	●	●	●	●	±0.5% r
		Apparent power	0.00 VA ... 9999 MVA	1.0 VA ... 1.52 kVA	●	●	●	●	±0.5% r
OUTPUTS		Power factor PF	-1 ... 0 ... 1	-1 ... 0 ... 1	●	●	●	●	±1% r
		Tangent φ	-1.2...0...1.2	-1.2 ... 0 ... 1.2	●	●	●	●	±1% r
		Cosinus φ	-1 ... 1	-1 ... 1	●	●	●	●	±1% r
		φ	-180 ... 180	-180 ... 180	●	●	●	●	±0.5% r
GALVANIC ISOLATION		Imported active energy	0 ... 99 999 999.9 kWh					●	±0.5% r
		Exported active energy	0 ... 99 999 999.9 kWh					●	±0.5% r
		Reactive inductive energy	0 ... 99 999 999.9 kvarh					●	±0.5%
		Reactive capacitive energy	0 ... 99 999 999.9 kvarh					●	±0.5%
		THD	0 ... 100%	0 ... 100%	●	●	●		±5% r

r - of the range mv - of the measured value

ND10 - METER OF NETWORK PARAMETERS



OUTPUTS	
Relay output	2 x relé, contacto libre normalmente abierto, 250 V~/0.5 A~
Pulse output of active/reactive energy	1 OC type (NPN), passive class A acc. to EN 62053-31, supply voltage 18 ... 27 V, current 10 ... 27 mA

SEE ALSO



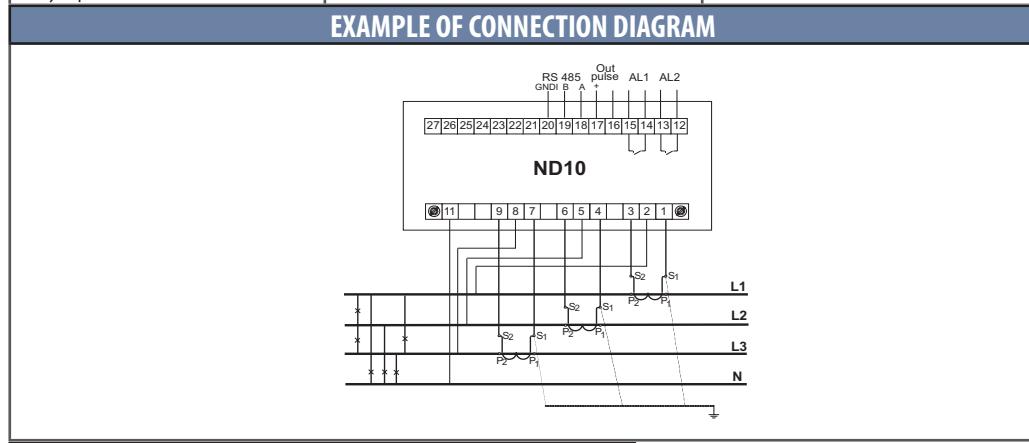
Free eCON software

DIGITAL INTERFACE			
Interface type	Transmission protocol	Mode	Baud rate
RS-485	MODBUS RTU	8N2, 8E1, 801, 8N1	4.8; 9.6; 19.2; 38.4 kbit/s

EXTERNAL FEATURES	
Readout field	LCD 3.5" screen, specialized, monochromatic with backlit
Weight	< 0.3 kg
Overall dimensions	96 x 96 x 77 mm
Protection grade (acc. to EN 60529)	from frontal side: IP65 from terminal side: IP20

RATED OPERATING CONDITIONS		
Supply voltage/ from measurement circuit of phase L3/	50 ... 64 V a.c., 195... 253 V a.c., 246 ... 300 V a.c., 47 ... 63 Hz	Power consumption: -en circuitos de tensión L1, L2 <0.05VA -en circuito de tensión L3 < 3 VA -en circuitos de corriente < 0.05 VA
Temperature	ambient: -25...23...55°C	storage: -30...70°C
Relative humidity	25...95%	inadmissible condensation
Operating position	any	
External magnetic field	0...40...400 A/m	
Short duration overload (1 s)	voltage input: 2Un (max. 1000 V)	current input: 10 In

SAFETY AND COMPATIBILITY REQUIREMENTS		
Electromagnetic compatibility	noise immunity	acc. to EN 61000-6-2
	noise emissions	acc. to EN 61000-6-4
Safety requirements		acc. to EN 61010-1



ORDERING						
ANALYSER OF NETWORK PARAMETER ND10 -	X	X	X	XX	X	X
Current input In:						
1 A (X/1)	1					
5 A (X/5)	2					
Voltage input (phase/ phase-to-phase) Un:						
3 x 57.7/100 V	1					
3 x 230/400 V	2					
3 x 290/500 V	3					
Digital output:						
without RS485 interface	0					
with RS485 interface	1					
Version:						
standard	00					
custom-made*	XX					
Language:						
Spanish	S					
English	E					
French	F					
Acceptance tests:						
without extra quality requirements	0					
with an extra quality inspection certificate	1					
acc. to customer's request*	X					



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