

THREE-PHASE POWER METER WITH WIDE DISPLAY (BASIC)

S711B



The instrument is a digital meter able to measure the electrical parameters on three-phase systems. It provides accurate measurements even by distorted waveform.

LCD display provides the three-phase quantities. The working parameters can be easily set up by instrument keypad.

The instrument is a compact, cost effective meter operating both as a stand-alone device or as an integral part of a more extensive energy monitoring and management network.

The instrument replaces multiple analog meters as well as single function meters such as voltmeters, ammeters, wattmeters, varmeters, frequency-meters, powerfactor-meters, energy-meters, etc.

Three-phase Power Meter BASIC version, DIN 96x96mm.

GENERAL DATA

Power Supply	230 Vac / 115 vac (RS485 models) 85..265 Vac, Aux, Cat II (auxiliary powered models)
Display	LCD, backlit, 43x29 mm, 3 rows, 4 digit+symbols
Keyboard	3 front button, 1 protected button
Operating temperature	-25..+55°C
Sinusoidal vibration amplitude	50 Hz $\pm$ 0.075 mm
DMD calculation	DI or window synchronization
Memory (instrument with communication port)	1 MB
Recordings	AGV values for active and reactive powers
THD & Harmonics	Voltage and current THD values
Apparent Energy Counters	Total counters or separated inductive/capacitive counters
Wiring modes	Three-phase, 4 wires, 3 currents Three-phase, 3 wires, single phase
Front protection degree	IP51
Terminals protection degree	IP20
Measuring terminal wire diameter	2,5mm ² / 14 AWG
I/O/Supply/COM terminal wire diameter	1,5mm ² / 16 AWG
Dimension (LxHxW)	96x96x39 mm
Weight	310 g

ACCURACY

Voltage	$\pm 0,2\%$ reading 10% FS...FS (FS=full scale value)
Current	$\pm 0,4\%$ reading in 5% FS...FS
Power	$\pm 0,5\%$ reading $\pm 0,1\%$ FS (PF=1)
Frequency	$\pm 0,1\%$ reading ± 1 digit in 45..65 Hz
Active Energy	Class 1 according to IEC/EN 62053-21
Reactive Energy	Class 2 according to IEC/EN 62053-23

COMMUNICATION

Serial Port	RS485 optoisolated, 300..57.600 bps (optional)
Ethernet Port	
Supported protocols	ModBUS RTU/ASCII (RS485)

MEASUREMENT INPUT

Voltage Input	Max voltage: 600 Vac max L-L 20/35 VCA (* VT ratio, using VT) Input impedance: $> 1,3$ MOhm Frequency: 45 -65 Hz
Current Input	Max nominal value: 7 A Starting current (Ist): 2 mA CT load: max 0,15 VA per phase Min FFT calculation value: 100 mA * CT ratio

I/O

Digital Input	Nr1 optoisolated channel for DMD synchronization, range 80..265 Vac/dc
Digital Output	Nr 2 optoisolated passive channels for alarms/pulses, NPN/PNP, max 27 Vcc - 27 mA, pulse lenght 50 $\pm$ 2 ms, output reaction time 1 s
Analog Output	

PROGRAMMING

Configuration systems	Front key buttons Energy Power Pack software (ModBUS/Ethernet models)
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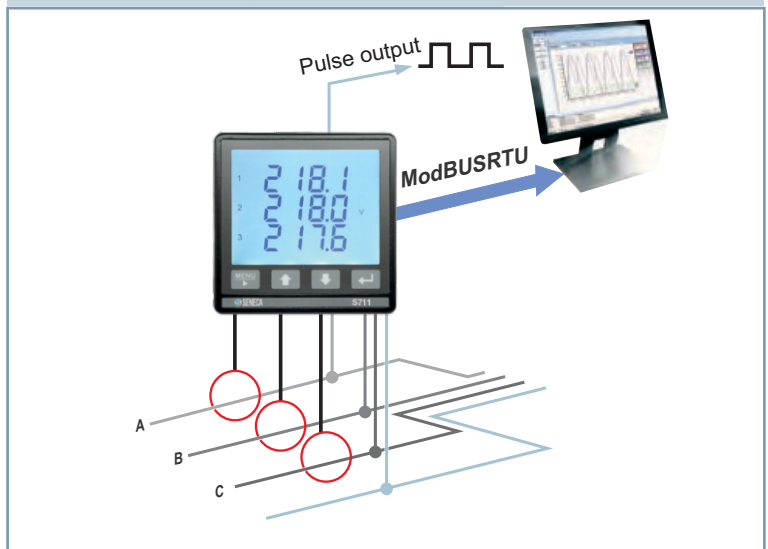
STANDARD

Certifications	CE
Directives	2006/95/CE, 2004/108/CE
Norms	EN 61010-1, EN 61010-2-030, EN 61326-1, EN 55011, EN 61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6, EN61000-4-11, EN61000-6-2

BUNDLE

Rogowski Coils	-
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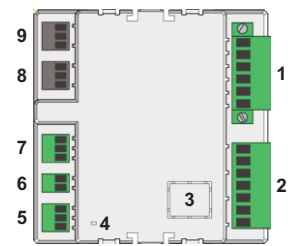
APPLICATION EXAMPLE



GENERAL OVERVIEW



- A. MENU key (M/▶)
- B. UP key (▲)
- C. DOWN key (▼)
- D. ENTER key (↵)



- 1. Current inputs
- 2. Voltage inputs
- 3. Ethernet port (*)
- 4. Ethernet status LED (*)
- 5. Digital outputs
- 6. Analog output (*)
- 7. RS485 port (*)
- 8. Digital input
- 9. Auxiliary power supply

(*) Available according to the instrument model.

DIMENSIONS

