

- Three Phase 1/5A Current Transformer operated
- MID B+D Certified
- UL Registered
- Accuracy Class 0.5 (Active Energy)
- Bi-directional Measurement for kW and kWh
- Configurable Pulsed output (Import/ Export / Nett kWh)
- Modbus (SMART X96-5) or Mbus (SMART X96-5-Mbus)
- Multi Parameter measurement
- Phase Sequence indication
- Phase Summary Page
- 2nd~63rd Individual Harmonic Distortion
- Internal three phase supply
- Multi-Tariff
- Free Configuration software

The SMART X96 series is an advanced multifunction three-phase energy monitoring solution with optional outputs such as Pulsed, RS485 RTU Modbus and Mbus. Equipped with configuration and display buttons for ease of navigation through the various parameters and settings. Housed for 96mm panel mounting, IP51 protection and 1/5A current transformer operated. Selectable measurement modes using our free configurations software for kWh display, Total kWh (Import + Export), Import kWh and Net kWh (Export - Import) Certified in the UK according to EU Directive 2014/32/EU. MID Certificate number 0120 / SGS0288.

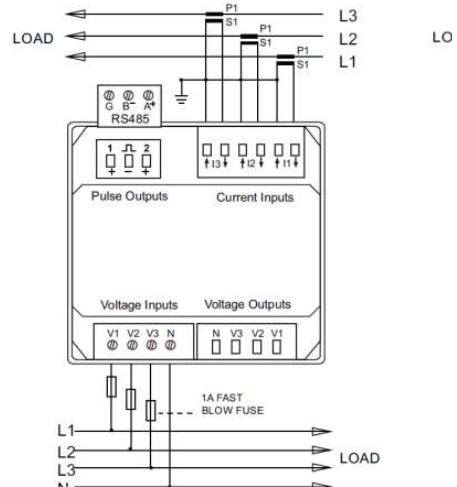
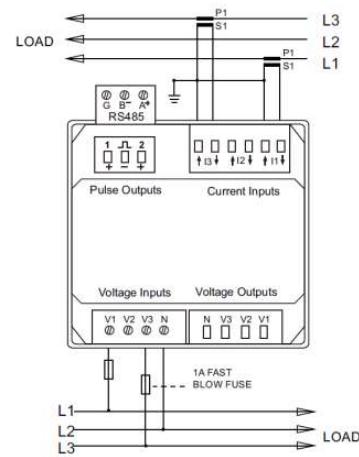
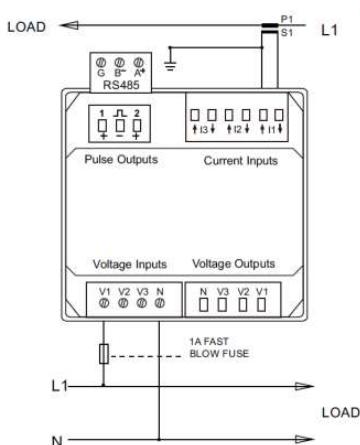


## Specification table

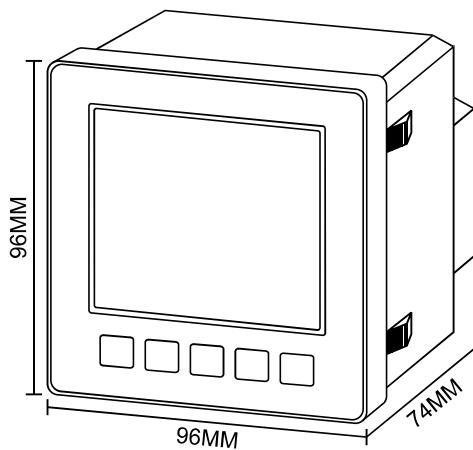
Input		Outputs	
Nominal input voltage	100-276V AC (L-N) 173-480V AC(L-L)	Relative humidity	0 to 95%, non-condensing
Max. continuous input overload voltage	120% of nominal	Shock	30g in 3 planes
Max. short duration input voltage	2 x nominal voltage for 1 second	Vibration	10Hz to 50Hz, IEC 60068-2-6, 2g
Nominal input voltage burden	< 0.2VA per phase	Dielectric Voltage	4kV between voltage and current to earth
Nominal input current	1/5A	Altitude	3000m
Nom. Input current burden	< 0.1 VA	Warm-up	1 minute
Max. continuous input overload current	120% of nominal		
Max. short duration input current	20 x nominal current for 1 second		
Power supply		Enclosure	
Operating range	Self powered (from any of the three phases)	Enclosure Style	DIN 96 panel mount
Supply burden	< 2W / 10 VA	Dimensions	96x96x22 mm
Accuracy		Panel cut-out	92x92mm
Voltage (V)	0.5% of range maximum	Panel thickness	1-2 mm
Current (A)	0.5% of range maximum	Protection rating	IP51 (Indoor)
Frequency (Hz)	0.2% of mid-frequency	Material	UL 94-VO
Power factor (PF)	1% of unity (0.01)	Weight	340 g
Active power (W)	1.0% of range maximum	Cable size	0.05mm-4mm stranded wire
Reactive power (Var)	1.0% of range maximum	Terminals	Voltage: Shrouded screw-clamp. Current: RJ12
Apparent power (VA)	1.0% of range maximum		
Active energy (kWh)	Class 0.5S IEC62053-22 Class 1.0 IEC62053-21		
Reactive energy (kVArh)	1.0% of range maximum to IEC 62053-24		
THD	2% to 63rd harmonic		
Environment			
Operating temperature	-25°C to +55°C		
Storage temperature	-40°C to +70°C		

For more information on these products, please contact our sales team on 0203 758 3494 or email [sales@eastroneurope.com](mailto:sales@eastroneurope.com)

## Wiring Configuration



## Dimension Drawing



## Ordering options

Meter Type	Description of Meter
<b>SMART X96-5</b>	Active Import/Export (kWh) 3x230/400V, 0.25-5(6)A, Transformer operated, Multifunction, RS485 Modbus RTU
<b>SMART X96-5E</b>	Active Import/Export (kWh) 3x230/400V, 0.25-5(6)A, Transformer operated, Multifunction, RS485 Modbus RTU, No THD, No Voltage Output and 1P2W and 3P4W only.

## Conformity References

**Electromagnetic Compatibility:** EN61326-1:2013 & EN61326-2-3:2013

**Low Voltage Directive:** EN61010-1-2010 & EN61010-2-30-2010

**MID DIRECTIVE:** 2014/32/EU

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