

# SRX835

## DIN RAIL MULTIFUNCTION CT OPERATED METER WITH RS485(Modbus) & PULSED OUTPUT



### Din Rail Mount as standard or Panel mount with kit (PKSRX835)

The SMARTRAIL X835 is a new generation modern design power monitor that will measure and display electrical power quality parameters. It has been engineered to cover most applications (Single Phase and Three Phase networks / Built in Pulsed and RS485 Modbus / Import and Export kWh), replacing the need for several different models of this power meter. The SMARTRAIL X835 is produced to the highest quality and utilizes the latest microprocessor and technology. It has a blue backlit display and 16 different measuring parameters. This includes a negative power reading to indicate reversal of CT installation or connection. With built in pulsed outputs and RS485 Modbus RTU it is fully compatible for integration with BMS and remote monitoring systems. It is also fully **MID approved**.

### Parameters

- Phase to Phase Voltage
- Frequency
- Neutral Current (Calculated)
- Current Total Harmonic (THD)
- Power Max Demand
- Import kWh
- Import kVarh
- Total kWh (Active Energy)
- Phase to Neutral voltage
- Voltage Total Harmonic Distortion (THD) Current
- Current Max Demand
- kW,kVA &• kVAh
- Power Factor
- Export kWh
- Export kVAh
- Total kVAh (Reactive Energy)

## **Interfaces for External Monitoring**

Three interfaces are provided:

- RS485 communication channel that can be programmed for Modbus RTU protocol
- Relay output indicating real-time measured energy.(configurable)
- Pulse output 3200imp/kWh (not configurable)

The Modbus configuration (baud rate etc.) and the pulse relay output assignments (kW/kVAh, import/export etc.) are configured through the set-up screens.

### **Pulse Output**

Opto-coupler with potential free SPST-NO Contact (Contact range 5-27VDC / Max current input: I<sub>min</sub> 2mA and I<sub>max</sub> 27mA DC). The pulse output can be set to generate pulses to represent kWh or kVAh.

**Rate** can be set to generate 1 pulse per:

0.01 = 10 Wh/VAh

0.1 = 100 Wh/VAh

1 = 1 kWh/kVAh

10 = 10 kWh/kVAh

100 = 100 kWh/kVAh

**Pulse width** 200/100/60 ms.

### **RS485 Output for Modbus RTU**

For Modbus RTU, the following RS485 communication parameters can be configured from the set-up menu:

**Baud** rate 2400, 4800, 9600, 19200, 38400

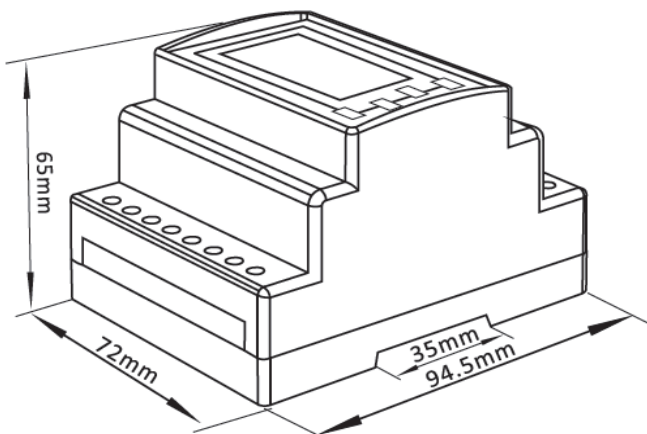
**Parity** none (default) / odd / even

**Stop bits** 1 or 2

**RS485 network address** nnn – 3-digit number, 1 to 247

**Modbus Word order** Hi/Lo byte order is set automatically to normal or reverse. It cannot be configured from the set-up menu.

### **Dimensions**



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