

SMART X835

Monitor and analysis your power consumption
Measurement brings intelligent



Three Phase Panel Mounting Multifunction Power Analyzer

Introduction

The Smart X835 is a new generation three phase multifunction panel meter, it can measure and display all major electronic parameters including voltage, frequency, current, power, active and reactive energy, imported and exported energy. Energy is measured in terms of kwh, kVArh.

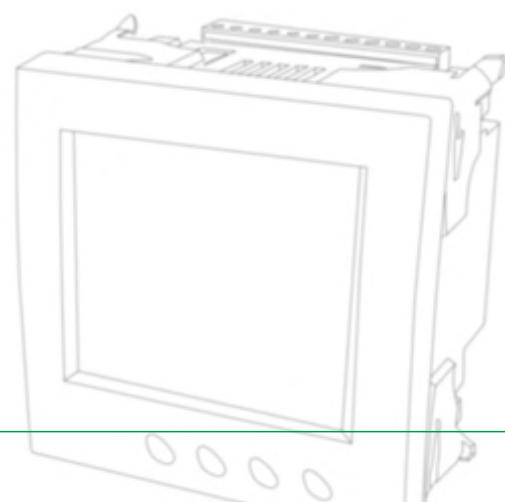
SMART X835 can be configured to work with a wide range of CTs, giving the unit a wide range of operation. Built-in interfaces provides pulse and RS485 Modbus RTU outputs. Configuration is password protected. It can be used not only in the electricity transmission and power distribution system but also in the power consumption measurement and analysis in high voltage and low voltage intelligent power grid.

Features

- DIN96 x96 mm Panel Mounted
- Class 0.5
- RS485 Modbus RTU
- Wide angle backlit display
- 2-60th Harmonic Distortion
- Easy installation and navigation

Measurement

Phase-Neutral Voltage	V1,V2,V3
Phase-Phase Voltage	V1-2,V2-3,V3-1
Current	I1,I2,I3
Active Power	P1,P2,P3,P_total
Reactive Power	Q1,Q2,Q3,Q_total
Apparent Power	S1,S2,S3,S_total
Power Factor	PF of L1/ L2/ L3,PF_total
Frequency	Hz
Active Energy	Ep_imp,Ep_exp,Ep_total
Reactive Energy	Eq_imp,Eq_exp,Eq_total
Total Harmonic Distortion	THD
Max. Demand	MD



Performance Criteria

Operating Humidity	≤85%
Storage Humidity	≤95%
Operating Temperature	-20°C~+50°C
Storage Temperature	-30°C~+70°C
International Standard	IEC62053-21/IEC61010
Protection against Dust and Water	IP51
Insulating Protective Class	II

Specification

Voltage Input	20~280V(L-N) 20~480V(L-L)
Nominal Voltage(Un)	230(400)V (3~)
Basic Current (Ib)	1A/5A
Over Current Withstand	120% of I _{max}
Starting Current	0.4%I _b
Frequency Range	50~60Hz
Auxiliary Power	85~275V AC/120~380V DC
CT Primary	1~9999A
PT Primary	500000V
Burden	0.36VA per phase Max at 600V 0.014VA per phase at 120 V

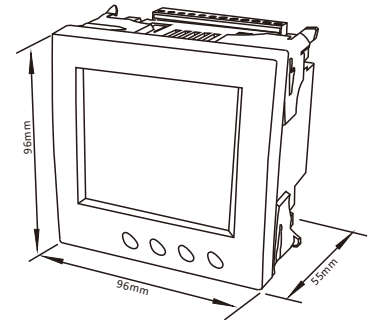
RS485 Communication

Protocol	Modbus RTU/ DL/T 645-2007
Bus Type	RS485
Baud Rate	1200/2400/4800/9600 (default)/ 19200/38400/115200bps
Address Range	1~247
Communication Distance	1000M
Parity	NONE
Data Bit	8
Stop Bit	1

Accuracy

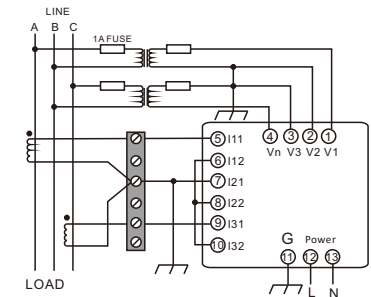
Voltage	0.2%
Current	0.2%
Active Power	0.5%
Reactive Power	0.5%
Real time Power	0.5%
Active Energy	Class 0.5/Class1.0
Reactive Energy	Class 1.0
Power Factor	0.5%
Frequency	0.2%
Active Demand	0.5%
Reactive Demand	0.5%
Real Time Demand	0.5%
Harmonic	1%

Dimensions



Wiring Diagram

Three Phase Three Wire



Three Phase Four Wire

