



M631

(Energy Meter)

(HSN CODE-9028)

Features:

- Single meter for different type of energy
- Measurement – DG/EB
- 32bit microcontroller with 24bit ADC for fast and high accuracy
- Upto 63A with inbuilt CT & German contact
- All electrical parameters
- Real Time Clock (RTC) with inbuilt battery
- Communication – RS485/Optical IR/TCP IP/Wireless P2A/GPRS
- Protocol – Modbus/STF/DLMS (selectable)
- Load & line management
- In-built memory to record data upto 10 years 1 hr resolution
- BIS certified to standard IS:13779 and confirms to IS:15884/16444
- Advance Dynamic Key Encryption (DKE) for load management and recharge

Advantages:

- Integrated Unit with inbuilt contact, communication and seal option
- Hassel free installation and very less space requirement
- Energy consumption behaviour & pattern analysis

Applications:

- Energy billing – Pre-paid/Post paid
- On Demand or schedule On/Off like Street Light control
- Energy Management
- Process Control

Measuring Parameters

- V_{L-N}
- Current
- Power factor
- Frequency
- Power: (active, reactive and apparent)
- Maximum demand: (kW, kVA)
- Peak maximum demand: (kW, kVA)
- Energy (active, reactive inductive, reactive capacitive, apparent)
- Run hour (import, export and total)
- Total Harmonic Distortion : voltage and current
- Load management and line management

Supply Voltage

Auxiliary supply	90-270 V AC/DC ($\pm 15\%$)
Frequency	50/60 Hz

Display

Display	LCD display
Display scrolling	Automatic/manual

Settable Parameters

C.T. primary	30A/63A to 10000A (fixed)
C.T. secondary	0.01A (fixed)
Load setting	7kW max, 13kW max per phase

Output Specifications

Communication	RS485/Optical IR/TCP IP Wireless P2A/ GPRS
Relay Output	Upto 90A

Input Specifications

Electrical connection	1Ø-2 wire
Input voltage range	0-280V
Input current range	5A-30A & 10A-63A (AC) <60A (DC)
Frequency	45-65 Hz
Resolution	Energy 0.1 kWh Power factor: 0.001 Frequency: 0.01 Hz Voltage: Autoranging Current: Autoranging Power: Autoranging
Accuracy	Voltage $\pm 0.5\%$ of F.S. Current $\pm 0.5\%$ of F.S. Power Factor $\pm 0.5\%$ of F.S. Frequency $\pm 0.1\%$ of F.S. Power (active, reactive and apparent): 1% Energy (active, reactive and apparent): Class 1
Burden	Voltage: 0.2 VA max. per input Current: 0.2 VA max. per input Aux. supply: 3 VA max.

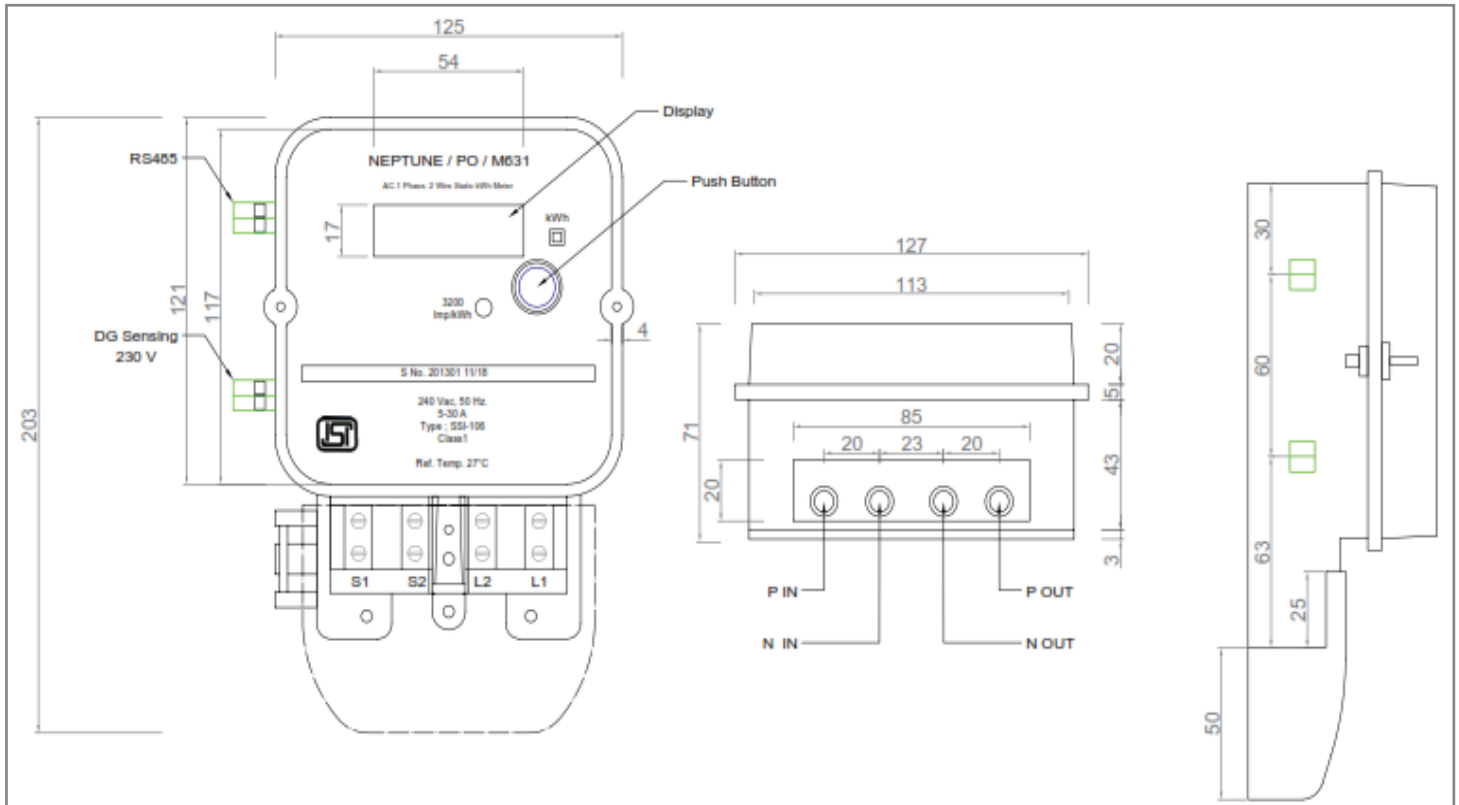
Environmental Specifications

Temperature	Operating : -10° to 55°C Storage : -20° to 75°C
Humidity	< 95% RH

Mechanical Specifications

Mounting	Versa/Base Mounting with Side
Weight	450 g
Enclosure material	ABS Thermoplastic

Dimension/Connection Diagram



All dimensions are in mm, specifications are subjected to change without prior notice.

Ordering Information

Code	Type of Module	Function
M631 3P1	Modbus/STF/DLMS	RS485
M631 3P2	Modbus/STF/DLMS	Optical IR
M631 3P3	Modbus/STF/DLMS	TCP IP
M631 3P4	Modbus/STF/DLMS	Wireless P2A
M631 3P5	Modbus/STF/DLMS	GPRS
M631 1P1	Modbus/STF/DLMS	RS485
M631 1P2	Modbus/STF/DLMS	RS Optical IR
M631 1P3	Modbus/STF/DLMS	TCPIP
M631 1P4	Modbus/STF/DLMS	Wireless P2A
M631 1P5	Modbus/STF/DLMS	GPRS

Neptune India Ltd.

A 11 - Sector 59, Noida - 201301, INDIA

Tel: 0120 420 5900, 429 7900

Email: enquiry@neptuneindia.com

