

ASEM-1030

Smart Energy Meter, Three Phase, 4 Wire

Technical Specifications:

Description	Details
Voltage Rating (P-N)	240VAC
Voltage Rating (P-P)	440VAC
Frequency	50 Hz \pm 5%
Current Rating	10A ~60A
Connection	Direct/whole current
Load Switch	Built-in Type (UC1)
Power Consumption	
In Potential Circuit	Less than 5W in WAN module IDLE mode/ Less than 7W in WAN module Transmission mode. Apparent power <15VA
In Current circuit	Apparent power <11.04VA
Classification	Class 1.0
Display	LCD with backlight
Communication	WAN Communication-Cellular (Plug-in type module) – 2G/3G Local : Optical port
Data Exchange	DLMS Category D2
Billing Profile	13 Months (12-history+1- current) Cycle: Monthly
TOD	4 time of day
LED Pulse Output	1600 imp/KWh
Tampering detection	<ul style="list-style-type: none"> Top cover open Neutral missing Magnet Current reverse Neutral disturbance



Standards:

Description	Details
Electrical & physical standard	IS 16444 Part-1 / IS 13779:2020
Communication Layer Protocol	IS 16444 Part 1/ IS 15959 part1 and IS15959 Part2

ASEM-1030 Product Brief

Physical parameters

Dimension (HxWxD)	: 234*188*96 mm
Material	: Polycarbonate
Weight	: 1.9Kg \pm 0.1Kg.
Seals	: Base to Top cover & Communication module
Terminals	: 8 (P1in-P1out, P2in-P2out, P3in-P3out, N (in)-N (out)) – Barrel Type
Mounting	: Wall mounting holes (one at The top and two at the Bottom)

Environmental

IP Rating	: IP51
Operating Temp.	: -10 to 55°C
Storage	: -25 to 70°C
Humidity	: Upto 95% RH

Display Parameters

Type	: LCD with Backlight
Size	: 10mm*5mm
Digits	: 6+1digits for Energy Registers
High Resolution	: 3+5 (3 – before decimal, 5 – After decimal) Digits

Load Survey

- ❖ Load Survey 23 days with 15min IP & 46 days with 30min IP
- ❖ load Survey Integration period 15/30minutes, default 15minutes
- ❖ The time stamp - at the end of the Capture period

- ❖ Real time clock, date and time
- ❖ Average Voltage
- ❖ Block energy, kWh (Import)
- ❖ Block energy, kWh (Export)
- ❖ Block energy, kVAh (Import)
- ❖ Block energy, kVAh (Export)
- ❖ Average Current
- ❖ Daily Load Profile Parameters
- ❖ Daily Load profile Days
- ❖ Real time clock, date and time
- ❖ Cumulative energy kWh (Import)
- ❖ Cumulative energy, kWh (Export)
- ❖ Cumulative energy, kVAh (Import)
- ❖ Cumulative energy, kVAh (Export)

Programmable Parameters

- ❖ Real time clock — Date and time
- ❖ Demand integration period
- ❖ Profile capture period
- ❖ Single-action schedule for billing dates
- ❖ Activity calendar for time zones
- ❖ Load Limit (kW)
- ❖ Enable /Disable load limit function
- ❖ Image transfer activation single schedule
- ❖ LLS Secret (MR) change
- ❖ HLS key (US) change
- ❖ HLS key (FW) change

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