

SINGLE-PHASE ELECTRONIC METER



SX1-A30E
Standard model

SX1

SERIES



SX1-B00E
Anti-tampering model



SX1-A31N
AMR model

DESCRIPTION

The **SX1** is a single-phase electronic meter implemented with digital signal processing techniques to measure energy, voltage, and current. It is integrated with anti-tampering and event log recording features.

APPLICATIONS

The **SX1** is designed to meet residential metering requirements. It is suitable for power utility revenues as well as apartment billings and energy monitoring.

FEATURES

- Class 1 accuracy according to IEC 62053-21
- Long-time free maintenance with digital calibration
- Multiple display values : kWh , Volt , Amp , kW , kVar, kVA and PF
- Non-reverse kilo watt-hour value
- Up to 6 anti-tampering option: Over current, Bypass , Earth load, reverse, Terminal cover opening, and Front cover opening detections with event log data
- IEC optical port for data programming and reading (option)
- RS-485 port for AMR communication (option)
- Sustainable to voltage drop , surge , and magnetic interference
- IP54 weather-proof construction suitable for indoor and outdoor use

TECHNICAL DATA

ACCURACY

Class 1

IEC 62053-21

OPERATING RANGES

Basic / Reference

Range

Voltage	220 V, 230, or 240 V	176 - 264 V
Current	5(15)A, 5(20)A, 5(45)A 10(60)A 15(45)A 5A CT type <i>*other rating are available up on Request</i>	
Frequency	50 or 60 Hz	45 - 65 Hz
Temperature	25°C	-25 °C to +55 °C (Standard) -25 °C to +70 °C (Extend Type)
Humidity		≤ 98%RH

ABSOLUTE MAXIMUMS RATING

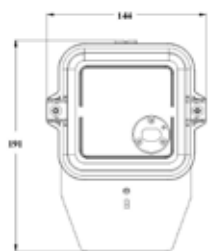
Impulse voltage withstand		6 kV
Over current	Continuous	1.2 I _{max} @ 30 minutes
	Temporary	30 I _{max} @ 10 milliseconds

GENERAL CHARACTERISTICS

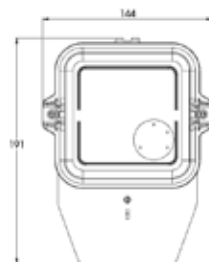
Power burden	Voltage Circuit	Less than 2 W/10 VA	
	Current Circuit	Less than 2 VA (at basic current)	
Starting current		0.4% of basic current	(e.g. 20mA for 5(15)A model)
No-load condition	(Creep)	No change more than 1 unit of register	
Startup delay		Less than 5 seconds	

AVAILABLE MODEL	Number of Sensors	Wiring Connection	Anti-Tampering Features						AMR Port	Terminal Cover
			OL	BP	ET	RE	TB	FC		
SX1-B00E	2	Direct	○	○	○	○	○	○	-	Extended
SX1-B01E	2	Direct	○	○	○	○	○	○	RS-485	Extended
SX1-B20E	2	Direct	○	○	○	○	○	-	-	Extended
SX1-A30E	1	Direct	-	-	-	-	-	-	-	Extended
SX1-A31N	1	Direct	-	-	-	-	-	-	RS-485	Short
SX1-A40N	1	CT	-	-	-	-	-	-	-	Short

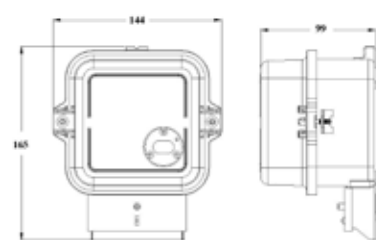
REMARK: OL: Over Load, BP: Bypass, ET: Earth, RE: Reverse, TB: Terminal Cover Opening, FC: Front Cover Opening



SX1-B00E



SX1-A30E



SX1-A31N

Specifications subject to change without notice
MEATH-E-0510-L

MITSUBISHI ELECTRIC AUTOMATION (THAILAND) CO., LTD.

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