

## Smart Energy Meter Mywatt SEM380

SEM380 Smart Energy Meter is a multi-utility energy monitoring device. It is a 3 phase energy meter with multiple communication channels for efficient energy monitoring and management. The meter features an LCD display which is capable of displaying graphs, charts and reports on-site. The meter comes with cloud data logging and inbuilt-memory data logging capabilities. It measures and reports multiple parameters such as current, voltage, active power, power factor, line voltage, phase voltage, frequency, instantaneous voltage and also, temperature and humidity with the help of additional sensors directly connected to the meter. It can also be used as a tariff meter by setting the in-built cost feature.



SEM380 Smart Energy Data logger and meter

### Benefits and Features

- 3.2" LCD Display Unit:  
*Day/Week/Month/Year bar graph display.*  
*Day/Month/Year Chart display.*
- Data logging using Micro-SD card:  
*4GB micro-SD can record data of 1-minute interval for 10-years.*
- Communication:  
*WiFi connectivity, RS-485 MODBUS, and TCP/IP (LAN).*
- Web-Cloud service on LAN and WiFi connectivity.
- 3 units of Clip-on Type 100A Current Clamp:  
*Neat and easy connection using clip on type CTs combined into one RJ12 jack.*
- 9-Sets Lcd scroll mode (5-Second interval).
- SD Card firmware upgrade.
- DIN rail and panel mounting.
- Adjustable on-screen CT and PT ratio.



Rearside, with slots for Antenna, SD card, piano switch, LAN and clamp RJ12 jack.



## SEM380 Technical Specification

<b>Nominal voltage</b>	4-wires	3x220/380V ... 3x240/415V
	3-wires	3x220/380V ... 3x240/415V, 3x127V/220V
<b>Nominal Frequency</b>		50/60Hz
<b>Current Sensor</b>	3 in 1 Clamp CT/ Clip-on CT	5A, 100A, 200A, 500A, 1000A, 2000A, 4000A
<b>Input current</b>	Clamp secondary output RJ12 Jack	max. 50mA (Option: 5mA output)
<b>Accuracy</b>	Voltage	0.5% of reading +/- 1 digit from 40V to 300V
	Current	0.5% of reading +/- 1 digit from 1.2 to 6A
	Frequency	0.1Hz from 50 to 60Hz
	Power	1% of reading +/- 1 digit
	Active Energy	Class 1
	Reactive Energy	Class 2
<b>Display &amp; Keyboard</b>	Display	3.2" TFT LCD, 65X50mm
	Keyboard	5 Front buttons
<b>Display Menu</b>	Menu page	(21 menus)
	*Energy1	Active Power (P), Total Power (kWh), V, A, PF, Hz
	*Energy2	Active Power, kWh, Reactive Power, Apparent Power
	*Cost	Daily and Monthly Energy Consumption & Cost Display
	*T&H	Temperature 1 & Humidity, Temperature 2
	*Pressure	Max. 10 Bar pressure display (Option)
	*Compare	Yesterday/Today, Last Week/This Week Graph Compare
	*Lost Energy	Hourly and Weekly Lost Energy Setting
	*Chart	Day/Week/Month/Year Chart
	*Graph	Day/Week/Month/Year Graph
	Timer	Period timer setting
	*Alarm	High/Low alarm setting
	*RS-485	Baudrate & Device ID setting
	*WI-FI	WIFI pairing
	*LAN	IP & Gateway address setting
	*Clock	Date and Time setting
	*Charge Rate	Unit currency cost setting (\$/€/Y/Euro)
	*Auto Scroll	13 menu Scroll selection (3/5/7 seconds interval select)
	*Admin	CT/PT ratio setting
<b>Communication Port</b>	Ethernet	RJ45 Port (10/100 Mbps) Web Cloud service available
	Modbus RS-485	MODBUS RTU (300 to 57600 bps)
<b>Data Logging</b>	Micro-sd Card (max. 16GB)	1min. Interval 10 years
	Flash memory	1hour interval 2 years
<b>Sensor Port</b>	Temperature & Humidity	-40°C ~ 80°C (0.5°C accuracy) 0 ~ 100%RH (+/-2%)
	Temperature	-55°C ~ 125°C (+/-0.5°C accuracy)
	Pressure	max. 10 Bar
<b>Alarm signal Port</b>	Max/Min Active Power Alarm setting	on-off signal
<b>Environmental Conditions</b>	Operating temperature	-25°C ~ 55°C
	Storage temperature	-25°C ~ 75°C
	Max. Humidity (without condensation)	80%
	Protection degree - front part	IP51
	Protection degree - terminals	IP20
<b>Size &amp; Weight</b>	Size (LxHxP)	130x80x120mm
	Panel cutout	120mm X 110mm
	Weight	420grams