

MyWatt Energy-Eye



Electricity energy consumption is increasing continuously year by year due to the human welfare and good life. The increased electricity consumption will make more CO2 gas and it will make global warming amplification.

Therefore, we must save energy even though we need energy consumption.

But how can we save the energy without energy monitor?

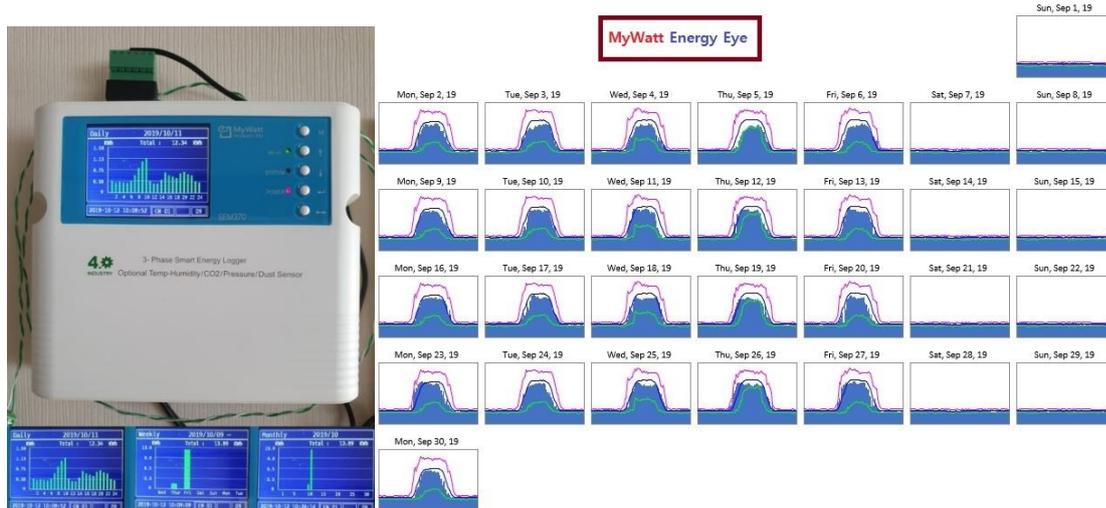
Normally we have only a few energy totalizers at home or factory, But we cannot measure daily, weekly and monthly energy by this totalizer immediately. We must calculate by using calculator at the end of the month. Or we can get it when we get the bill from the energy company at the end of the month.

Only MyWatt Energy Eye can see instant real-time energy (W), total energy (kWh) since the starting of the meter. Or you can see the lcd display for daily, weekly, monthly and yearly data by chart and graph as the above photo.

It is unique device in the world. No competing items in the worldwide market which can save energy by seeing the data at a glance and do action immediately.

We do not need pc, pc software, web server for to get this information at the factory ground site.

You can save 5 to 10% energy immediately from next month. Please try and get the result.



MyWatt Energy–Eye description:

1) Micro SD–Card log the 1 minute interval data for 3–phase. Realtime energy (W), Active power (Wh), Reactive power, Apparent power, Power Factor, Frequency, Temperature and Humidity.

2) Web cloud service by using TCP/IP. If you go to our homepage www.mywatt.biz , you can see the detail of web cloud service. You can also use 3G or 4G modem instead of 2.4G line.

Daily, weekly, monthly, yearly and by–year graph and data file.

3) If you add WIFI module on Energy–Eye, you can also get web cloud service. You can use WIFI module when the LAN cable line is not available.

WIFI pairing method : https://www.youtube.com/watch?v=QTEu8_2TPL0

4) If you are using Modbus RS–485 connection, you can link up to 200 channels by using 2–wire cable.

5) If you are using LORA module option, you can link up to 200 channels Energy–Eye and get a complete big building data to the web cloud service directly.

web cloud server: www.mywatt.pro sample page: <http://mywatt.biz/cloud/>

6) App service: Please download “mywattpro” app at Android Shop.

Sample site: www.mywatt.biz/app/app2

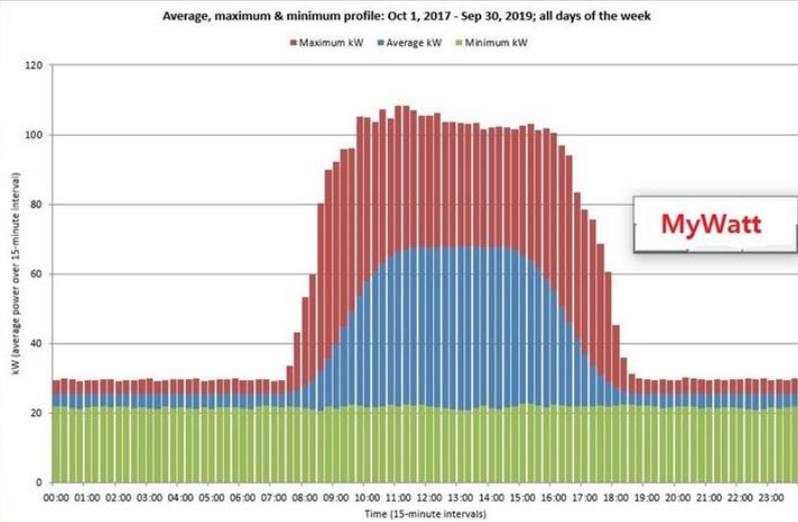
7) Energy–Eye have 4–magnets on the backside and you can easily attach it on steel plate.

8) Energy–Eye can add Temperature and humidity sensor, Pressure sensor or Dust sensor.

9) Energy–Eye could be use Single phase 3 channel type or 3–Phase single channels. In case of 3–channel application, we can see 3P, L1, L2 and L3 data

separately.

HOME ENERGY



FACTORY ENERGY





SD-CARD DATA LOGGING

| | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P |
|---|-------|-----------------|------|------|------|-------|--------|--------|--------|--------|--------|--------|-------|-------|-------|------|
| 1 | Count | 저장시간 | 전류R상 | 전류S상 | 전류T상 | 3상평균전 | 상전압R상 | 상전압S상 | 상전압T상 | 유효전력R | 유효전력S | 유효전력T | 무효전력R | 무효전력S | 무효전력T | 역률R상 |
| 2 | COUNT | DATETIME | IR | IS | IT | LA | VR | VS | VT | WATT_R | WATT_S | WATT_T | VAR_R | VAR_S | VAR_T | PFR |
| 3 | 4215 | 2017-02-02 0:00 | 0.05 | 0.04 | 0.04 | 0.04 | 215.27 | 215.27 | 215.28 | 2.37 | 2.79 | 2.8 | 0.29 | 0.02 | 0 | 0.23 |
| 4 | 4216 | 2017-02-02 0:01 | 0.05 | 0.04 | 0.04 | 0.04 | 216.67 | 216.68 | 216.68 | 1.57 | 2.56 | 2.31 | -0.01 | 0.23 | 0.31 | 0.16 |
| 5 | 4217 | 2017-02-02 0:02 | 0.05 | 0.04 | 0.04 | 0.04 | 216.48 | 216.48 | 216.48 | 2.02 | 2.74 | 2.31 | -0.2 | -0.11 | 0.25 | 0.19 |
| 6 | 4218 | 2017-02-02 0:03 | 0.05 | 0.04 | 0.04 | 0.04 | 217.05 | 217.05 | 217.05 | 1.69 | 2.41 | 3 | -0.28 | -0.3 | 0.22 | 0.17 |
| 7 | 4219 | 2017-02-02 0:04 | 0.05 | 0.04 | 0.04 | 0.04 | 216.4 | 216.4 | 216.4 | 2.74 | 2.68 | 2.28 | -0.31 | -0.12 | -0.38 | 0.27 |

SD CARD GRAPHIC READER (DAY, HOUR, MONTH)



RS-485 SOFTWARE

Date and Time: 2019-05-28 12:39:33 Time duration: 0 hour 4 min, 38 sec.

Port Connection: Port: COM7 Baudrate: 9600 Open Close

Device: Slave ID 1 Last ID 3

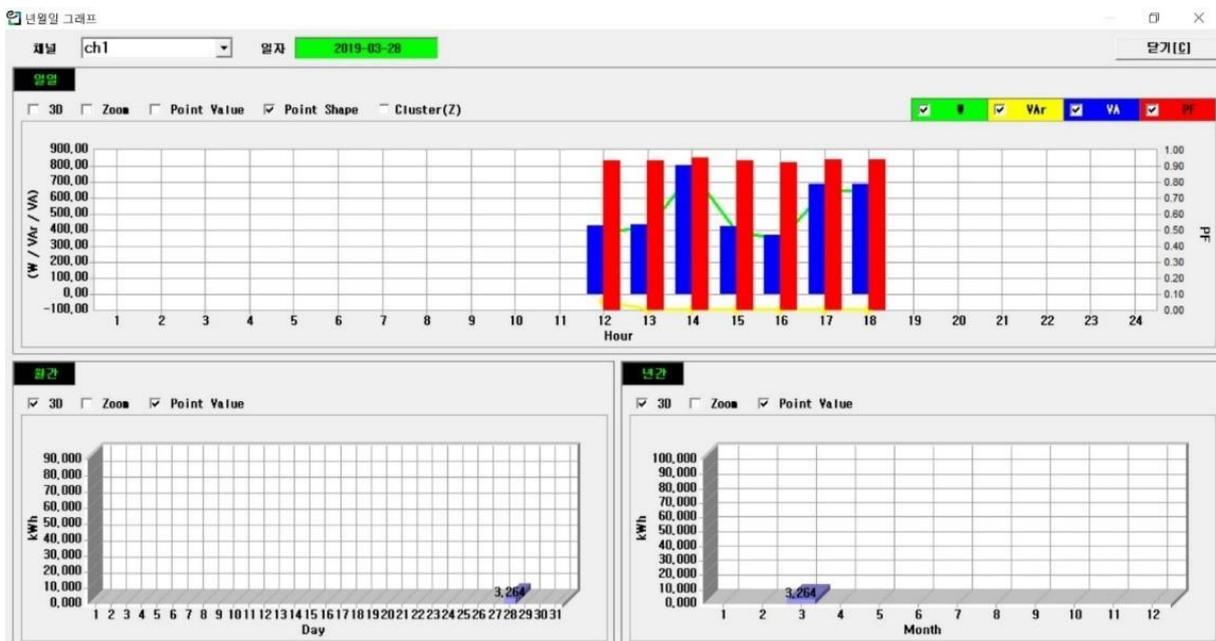
Poll count: 139

| Power Data 1 | | Power Data 2 | |
|--------------------------|--------|--------------|--------|
| Current, Phase A | 0.87 | WHA_POS | 0.01 |
| Current, Phase B | 0.87 | WHB_POS | 0.01 |
| Current, Phase C | 0.87 | WHC_POS | 0.01 |
| Current, 3-Phase Average | 0.87 | VT_RMS | 210.72 |
| Voltage, A-N | 210.90 | PF_T | 0.99 |
| Voltage, B-N | 210.76 | VA_A | 0.18 |
| Voltage, C-N | 210.50 | VA_B | 0.18 |
| Active Power, Phase A | 0.18 | VA_C | 0.19 |
| Active Power, Phase B | 0.18 | WATT_T3 | 0.55 |
| Active Power, Phase C | 0.18 | VA_T3 | 0.55 |
| Reactive Power, Phase A | -0.02 | VAR_T3 | -0.05 |
| Reactive Power, Phase B | -0.02 | | |
| Reactive Power, Phase C | -0.02 | | |
| Power Factor A | 0.99 | | |
| Power Factor B | 0.99 | | |
| Power Factor C | 0.99 | | |
| Frequency | 59.72 | | |
| WATT_T3 Total | 0.00 | | |
| VA_T3 Total | 0.00 | | |
| VAR_T3 Total | 0.00 | | |

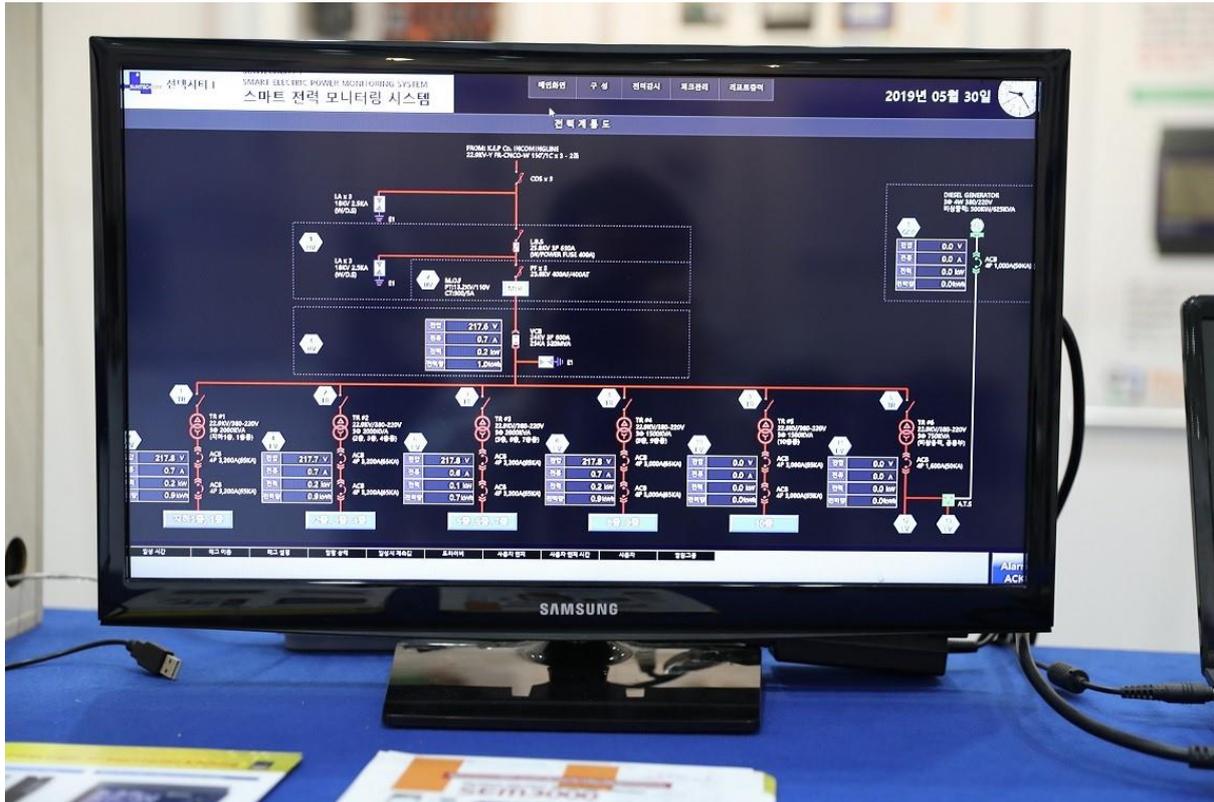
Temperature-Humidity: Temperature 0.00

Polling Control: Poll Interval 2 Sec.

GRAPHIC SOFTWARE MODBUS RS-485



BEMS SOFTWARE



WEB CLOUD SERVICE

SEM3000

[Realtime](#) [Sem3000](#) [Account](#) [Logout](#)

Realtime

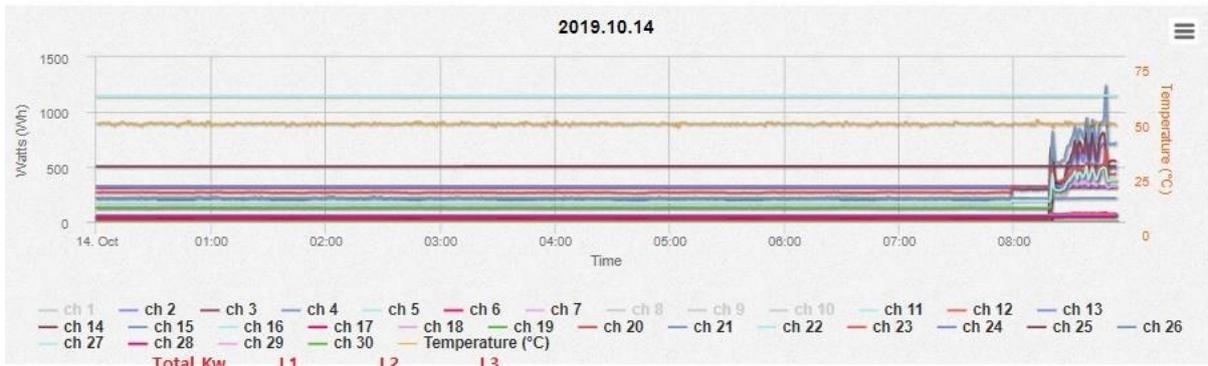
UserID: korins Date/Time: 2019-10-14 08:26 Auto Refresh

| NO | Application | S/N | Selection | Active Power(W) | Integrating Power(kWh) | Last Month(kWh) | Today(kWh) | This Month(kWh) | This Month Cost(W) | This Year(kWh) | Status | Graph |
|----|----------------------|--------|-----------|-----------------|------------------------|-----------------|------------|-----------------|--------------------|----------------|--------|--------------------|
| 16 | SEM3000_101191 | 101191 | ----- | realtime power | | | | | | | | view |
| 15 | 3p3p | 101196 | ----- | | | | | | | | | view |
| 14 | SEM375_101155korins- | 101155 | SEM370 | 1263 | 1147 | 974 | 2 | 173 | ₩22,490 | 1147 | Good | view view graph |
| 13 | SEM375_101153-Graph | 101153 | SEM370 | 14 | 2 | | 0 | 2 | ₩260 | 2 | Good | view |
| 12 | SEM375_101152uae | 101152 | SEM370 | | | 16 | | | | | Bad | view |
| 11 | SEM370_123125Y | 123125 | SEM370 | | | | | | | | Bad | view |
| 10 | SEM370_123124Y | 123124 | SEM370 | | | | | | | | Bad | view |
| 9 | SEM375_101164_Home | 101164 | SEM370 | 672 | 48 | 538 | 5 | 48 | ₩6,240 | 48 | Good | view |
| 8 | SEM370_101078 | 101078 | SEM370 | | | | | | | | Bad | view |
| 7 | 101112 | 101112 | SEM370 | | | | | | | | Bad | view |
| 6 | SEM370_101057_708 | 101057 | SEM370 | 35 | 18 | 6 | 1 | 12 | ₩1,560 | 18 | Good | view |
| 5 | TCPIP_TEST | 900002 | SEM370 | | | | | | | | Bad | view |
| 4 | SEM375_101130_aircon | 101130 | SEM370 | 697 | 1412 | 1359 | 1 | 53 | ₩6,890 | 1412 | Good | view |

power amount

Control < Previous SEM375_101155korins- ALL Daily usage 2019-10-14 Next > Auto Refresh

ED.Board



| Total Kw | | | | L1 | | | L2 | | | L3 | | |
|----------|----------|--------|--------|----------|--------|--------|--------|--------|--------|--------|--|--|
| | ch 1 | ch 2 | ch 3 | ch 4 | ch 5 | ch 6 | ch 7 | ch 8 | ch 9 | ch 10 | | |
| Now | 1.8 kW | 483 W | 551 W | 720 W | 0 W | 0 W | 0 W | 0 W | 0 W | 0 W | | |
| Today | 3.2 kWh | 616 Wh | 599 Wh | 2.3 kWh | 0 Wh | | |
| Cost | 600(KRW) | 0(KRW) | 0(KRW) | 400(KRW) | 0(KRW) | 0(KRW) | 0(KRW) | 0(KRW) | 0(KRW) | 0(KRW) | | |

| Total kWh | | | | L1 | | | L2 | | | L3 | | |
|-----------|------------|----------|----------|----------|--------|--------|--------|------------|------------|------------|--|--|
| | ch 11 | ch 12 | ch 13 | ch 14 | ch 15 | ch 16 | ch 17 | ch 18 | ch 19 | ch 20 | | |
| Now | 1.1k | 314 | 326 | 507 | 69 | 67 | 75 | 3.2k | 3.7k | 4.4k | | |
| Today | 10.3k | 2.8k | 2.9k | 4.6k | 142 | 68 | 352 | 13.1k | 13.1k | 25.4k | | |
| Cost | 2,000(KRW) | 400(KRW) | 400(KRW) | 800(KRW) | 0(KRW) | 0(KRW) | 0(KRW) | 2,600(KRW) | 2,600(KRW) | 5,000(KRW) | | |

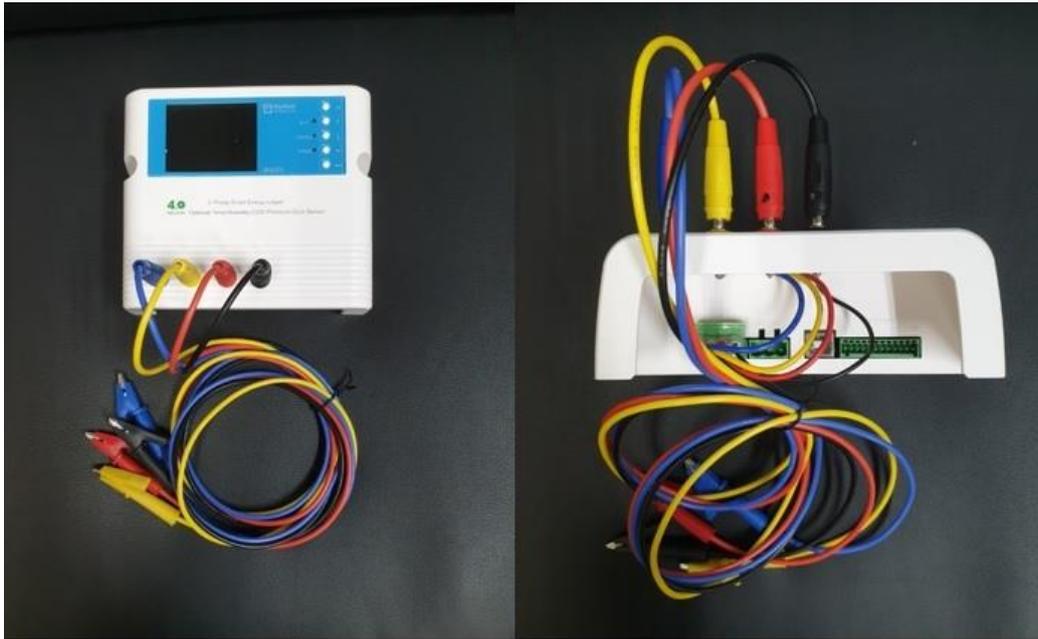
| Volt | | | | Av. Current | | | | Av. P.F. | | | | Hz | | | | Temp. | | | | Humidity | | | | Pressure | | | |
|-------|----------|----------|--------|-------------|--------|--------|--------|----------|--------|--------|--|----|--|--|--|-------|--|--|--|----------|--|--|--|----------|--|--|--|
| | ch 21 | ch 22 | ch 23 | ch 24 | ch 25 | ch 26 | ch 27 | ch 28 | ch 29 | ch 30 | | | | | | | | | | | | | | | | | |
| Now | 217 | 3.77 | 0.71 | 59 | 0 | 0 | 0 | 44 | 0 | 0 | | | | | | | | | | | | | | | | | |
| Today | 2k | 17.24 | 2.13 | 533 | 0 | 0 | 0 | 396 | 0 | 0 | | | | | | | | | | | | | | | | | |
| Cost | 200(KRW) | 200(KRW) | 0(KRW) | 0(KRW) | 0(KRW) | 0(KRW) | 0(KRW) | 0(KRW) | 0(KRW) | 0(KRW) | | | | | | | | | | | | | | | | | |

APPLICATION : [MYWATTPRO](#)

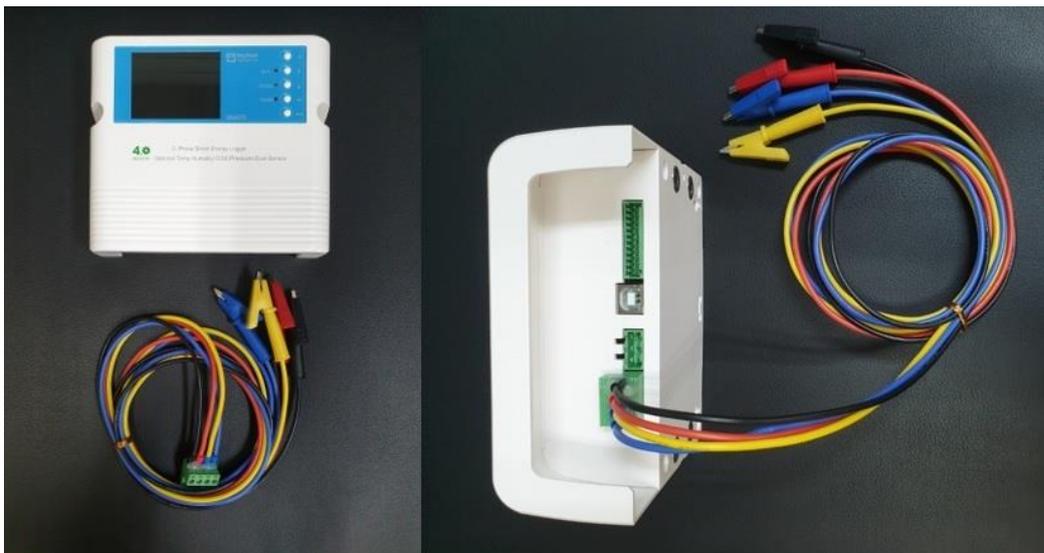


| Device Name | Power | Time | Status |
|----------------|-------|------|--------|
| SEM3000_10657 | 17 | 8 | Good |
| SEM3000_933333 | 0 | 1 | Good |
| SEM370_101132 | 1387 | 289 | 167 |
| SEM375_101130 | 8536 | | |
| TCPIP_TEST | 2672 | 1188 | 172 |

SEM375 OPTIONAL ITEMS



SEM375-A3CA CABLE



SEM375 Portable Smart Energy Logger - 4 Wire Voltage Cable

SEM375-A2CA



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