

EKM METERING INC.

Omnimeter Pulse v.4 Parsing PDF (2024)

EKM-Omnimeter Pulse v.4 RS485 Serial Parsing

Request Type A Meter 300023578

```
| Meter Number |type |
2f 3f|30 30 30 33 30 30 30 32 33 35 37 38|30 30|
End
21 0d 0a
```

Response

```
|meter|* | Meter Number |
02|10 24|24|30 30 30 33 30 30 30 32 33 35 37 38|
Total kWh | Total KVARh |
30 30 30 30 30 30 34 35|30 30 30 30 30 30 30 36|
Total Rev kWh | Total kWh L1 |
30 30 30 30 30 30 30 37|30 30 30 30 30 30 32 31|
Total kWh L2 | Total kWh L3 |
30 30 30 30 30 30 31 33|30 30 30 30 30 30 31 33|
Reverse kWh L1 | Reverse kWh L2 |
30 30 30 30 30 30 30 39|30 30 30 30 30 30 30 30|
Reverse kWh L3 | Resettable kWh Total |
30 30 30 30 30 30 30 30|30 30 30 30 30 30 34 35|
Resettable Reverse kWh | Volts L1 | Volts L2 |
30 30 30 30 30 30 30 37|31 32 30 39|30 30 30 30|
Volts L3 | Amps L1(5B) | Amps L2 (7B) |
30 30 30 30|30 30 30 30 30|30 30 30 30 30|30 30
AmpsL3 | Watts L1 (7B) | Watts L2 (7B)
30 30 30|30 30 30 30 30 30 30|30 30 30 30 30 30
| Watts L3 (7B) | Total Watts (7B) |
30|30 30 30 30 30 30 30 30|30 30 30 30 30 30 30|43
Cos L1 | Cos L2 | Cos L3 | VAR L1 (7B)
30 30 30|43 30 30 30|43 30 30 30|30 30 30 30 30
| VAR L2 (7B) | VAR L3 (7B) |
30 30|30 30 30 30 30 30 30|30 30 30 30 30 30 30|
VAR L1,2,3 (7B) |Frequency | Pulse 1 (8B)
30 30 30 30 30 30 30|36 30 30 35|30 30 30 30 30
| Pulse 2 (8B) | Pulse 3 (8B)
30 30 30|30 30 30 30 30 30 30 30|30 30 30 30 30
| &| ?|@ |^^|Reser| Date/Time (14B)
30 30 30|30|31|31|30|30 30|32 35 30 35 33 30 30
|Type | END |CRC16
33 31 34 34 38 35 36|30 30|21 0d 0a 03|6a 41
```

* Firmware Version
& Pulse Input State High/Low (closed/open)
 Low/Low/Low = 0 (30)
 Low/Low/High = 1 (31)
 Low/High/Low = 2 (32)
 Low/High/High = 3 (33)
 High/Low/Low = 4 (34)
 High/Low/High = 5 (35)
 High/High/Low = 6 (36)
 High/High/High = 7 (37)

? Direction of Current
 Line1/Line2/Line3
 Forward/Forward/Forward = 1 (31)
 Forward/Forward/Reverse = 2 (32)
 Forward/Reverse/Forward = 3 (33)
 Reverse/Forward/Forward = 4 (34)
 Forward/Reverse/Reverse = 5 (35)
 Reverse/Forward/Reverse = 6 (36)
 Reverse/Reverse/Forward = 7 (37)
 Reverse/Reverse/Reverse = 8 (38)

@ Indicate Outputs
 OFF/OFF = 1 (31)
 OFF/ON = 2 (32)
 ON/OFF = 3 (33)
 ON/ON = 4 (34)

^^ Indicate kWh Decimal Places
 0 Decimal Places = 0 (30)
 1 Decimal Place = 1 (31)
 2 Decimal Places = 2 (32)

Close String

01 42 30 03 75
=====

Request Type B Meter 300001145

 | Meter Number |type |
2f 3f|30 30 30 33 30 30 30 30 31 31 34 35|30 31|
End
21 0d 0a

Response

 |meter|* | Meter Number |
02|10 24|24|30 30 30 33 30 30 30 30 31 31 34 35|

```

    Total kWh T1      | Total kWh T2      |
30 30 30 30 30 30 30 37|30 30 30 30 30 30 33 38|
    Total kWh T3      | Total kWh T4      |
30 30 30 30 30 30 30 30|30 30 30 30 30 30 30 30|
    Reverse kWh T1     | Reverse kWh T2     |
30 30 30 30 30 30 30 37|30 30 30 30 30 30 30 30|
    Reverse kWh T3     | Reverse kWh T4     |
30 30 30 30 30 30 30 30|30 30 30 30 30 30 30 30|
    Volts L1 | Volts L2 | Volts L3 | Amps L1
31 32 32 34|30 30 30 30|30 30 30 30|30 30 30 30
    | Amps L2 (5B) | Amps L3 (5B) | Watts L1
30|30 30 30 30 30 30|30 30 30 30 30 30|30 30 30 30 30
    | Watts L2 (7B)      | Watts L3 (7B)      |
30 30|30 30 30 30 30 30 30|30 30 30 30 30 30 30 30|
    Total Watts (7B)    | Cos L1      | Cos L2      |
30 30 30 30 30 30 30 30|43 30 30 30 43 30 30 30|43
    Cos L3 |Max Demand(8B) "1510.0"| #| P Ratio 1 |
30 30 30|30 30 30 31 35 31 30 30|31|31 30 30 30|
P Ratio 2 | P Ratio 3 | CT Ratio | $|CF Ratio
31 30 30 30|31 30 30 30|30 32 30 30|30|30 38 30
    | Reserved (56B)
30|30 30 30 30 30 30 30 30 30 30 30 30 30 30 30
30 30 30 30 30 30 30 30 30 30 30 30 30 30 30
30 30 30 30 30 30 30 30 30 30 30 30 30 30 30
    | Date/Time (14B)
30 30 30 30 30 30 30 30 30 30|32 35 30 35 33 30 30
    |Type | END      |CRC16
33 31 34 34 39 31 38|30 31|21 0d 0a 03|43 2b

```

```

* Firmware Version
# Demand Period Time
    15 min = 1 (31)
    30 min = 2 (32)
    Hour   = 3 (33)
$ Auto Reset Max Demand
    OFF    = 0 (30)
    Monthly = 1 (31)
    Weekly  = 2 (32)
    Daily   = 3 (33)
    Hourly  = 4 (34)

```

```

Close String
01 42 30 03 75

```