**Eastron Decoder 3-phase – SDM630 – MyDevices Scenario**

Options enabled – 8 parameters:

**L1, L2, L3 Voltage**

**L1-2, L2-3, L3-1 Voltage**

**L1, L2, L3 Current**

**Power Factor**

**import kWh**

**export kWh**

**L1, L2, L3 total kWh**

**Total kWh combined, N/A, N/A**

To enable the above, queue the following downlinks (fport1):

* 010300180002440C
* 01100018000204447A0000C62C
* 0103000E0002A5C8
* 0110fe120001020003faec
* 0110fe02000f1e0001020304050708090c0d0e3435363738393a3b3c2fffffffffffffffffCB25
* 0110fe1300010200fffb7c

That will result with such payload messages:  
*For Example:*  
1. 015727bf010c437047e0437047e00000000075dc-> L1, L2, L3 (Volt)

2. 015727bf020c00000000000000000000000018ac -> L1-2, L2-3, L3-1 (Volt)

3. 015727bf030c4247e160000000000000000052b1 -> L1, L2, L3 (Amps)

4. 015727bf040c0000000000000000000000001eaa -> L1, L2, L3 (Pow Fac)

5. 015727bf050c3cfdf3b600000000000000009d3f -> L1, L2, L3 (import kWh)

6. 015727bf060c0000000000000000000000001d68 -> L1, L2, L3 (export kWh)

7. 015727bf070c3cfdf3b600000000000000009efd -> L1, L2, L3 (total kWh)

8. 015727bf080c3cfdf3b6000000000000000091f2 ->Total kWh combined, N/A, N/A

The first batch:  
**015727bf010c437047e0437047e00000000075dc**

**015727bf** – device serial

**01** - first batch (will be multiple uplinks depending on number of parameters being sent)

**0c** - number of bytes

**437047e0**– Voltage L1

**437047e0**– Voltage L2

**00000000** – Voltage L3

**75dc** - MODBUS CRC

This will translate to: **437047e0 – hex to float: 240.281 (V) [L1]**

**437047e0 – hex to float: 240.281 (V) [L2]**

**00000000** **– hex to float: 0.0 (V) [L3]**

**Bytes decoding (hex to float) can be done by hex to float online converter:**[Floating Point to Hex Converter (gregstoll.com)](https://gregstoll.com/~gregstoll/floattohex/)

Similarly, the 2nd batch:  
**015727bf020c00000000000000000000000018ac**

**015727bf** – device serial

**02** - second batch (will be multiple uplinks depending on number of parameters being sent)

**0c** - number of bytes

**00000000**– Voltage L1-2

**00000000**– Voltage L2-1

**00000000** – Voltage L3-1

**18ac** - MODBUS CRC

This will translate to: **00000000– hex to float: 0.0 (V) [L1-2]**

**00000000– hex to float: 0.0 (V) [L2-1]**

**00000000** **– hex to float: 0.0 (V) [L3-1]**

**Bytes decoding (hex to float) can be done by hex to float online converter:**[Floating Point to Hex Converter (gregstoll.com)](https://gregstoll.com/~gregstoll/floattohex/)

Then the 3rd batch:

**015727bf030c4247e160000000000000000052b1**

**015727bf** – device serial

**03** - second batch (will be multiple uplinks depending on number of parameters being sent)

**0c** - number of bytes

**4247e160** – Current L1

**00000000**– Current L2

**00000000** – Current L3

**52b1** - MODBUS CRC

This will translate to: **4247e16 – hex to float: 49.9701 (A) [L1]**

**00000000– hex to float: 0.0 (A) [L2]**

**00000000** **– hex to float: 0.0 (A) [L3]**

**Bytes decoding (hex to float) can be done by hex to float online converter:**[Floating Point to Hex Converter (gregstoll.com)](https://gregstoll.com/~gregstoll/floattohex/)

The 4th batch:

**015727bf040c00000000000000000000000018ac**

**015727bf** – device serial

**04** - second batch (will be multiple uplinks depending on number of parameters being sent)

**0c** - number of bytes

**00000000** – Power Factor L1

**00000000** – Power Factor L2

**00000000** – Power Factor L3

**18ac** - MODBUS CRC

This will translate to: **00000000– hex to float: 0.0** **[Power Factor L1]**

**00000000– hex to float: 0.0 [Power Factor L2]**

**00000000** **– hex to float: 0.0 [Power Factor L3]**

**Bytes decoding (hex to float) can be done by hex to float online converter:**[Floating Point to Hex Converter (gregstoll.com)](https://gregstoll.com/~gregstoll/floattohex/)  
  
The 5th batch:  
**015727bf050c3cfdf3b600000000000000009d3f**

**015727bf** – device serial

**05** - second batch (will be multiple uplinks depending on number of parameters being sent)

**0c** - number of bytes

**3cfdf3b6** – import kWh L1

**00000000** – import kWh L2

**00000000** – import kWh L3

**9d3f** - MODBUS CRC

This will translate to: **3cfdf3b6 – hex to float: 0.031 (import kWh) [L1]**

**00000000 – hex to float: 0.0 (import kWh) [L2]**

**00000000** **– hex to float: 0.0 (import kWh) [L3]**

**Bytes decoding (hex to float) can be done by hex to float online converter:**[Floating Point to Hex Converter (gregstoll.com)](https://gregstoll.com/~gregstoll/floattohex/)

The 6th batch:

**015727bf060c0000000000000000000000001d68**

**015727bf** – device serial

**06** - second batch (will be multiple uplinks depending on number of parameters being sent)

**0c** - number of bytes

**00000000** – export kWh L1

**00000000** – export kWh L2

**00000000** – export kWh L3

**1d68**- MODBUS CRC

This will translate to: **00000000– hex to float: 0.0 [Export kWh L1]**

**00000000– hex to float: 0.0 [Export kWh L2]**

**00000000** **– hex to float: 0.0 [Export kWh L3]**

**Bytes decoding (hex to float) can be done by hex to float online converter:**[Floating Point to Hex Converter (gregstoll.com)](https://gregstoll.com/~gregstoll/floattohex/)

The 7th batch: **015727bf070c3cfdf3b600000000000000009efd** -> L1, L2, L3 (total kWh)

**015727bf** – device serial

**07** - second batch (will be multiple uplinks depending on number of parameters being sent)

**0c** - number of bytes

**3cfdf3b6**– Total kWh L1

**00000000** – Total kWh L2

**00000000** – Total kWh L3

**9efd**- MODBUS CRC

This will translate to: **3cfdf3b6 – hex to float: 0.031 (Total kWh) [L1]**

**00000000 – hex to float: 0.0 (Total kWh) [L2]**

**00000000** **– hex to float: 0.0 (Total kWh) [L3]**

**Bytes decoding (hex to float) can be done by hex to float online converter:**[Floating Point to Hex Converter (gregstoll.com)](https://gregstoll.com/~gregstoll/floattohex/)

The 8th batch: **015727bf080c3cfdf3b6000000000000000091f2   
015727bf** – device serial

**08** - second batch (will be multiple uplinks depending on number of parameters being sent)

**0c** - number of bytes

**3cfdf3b6**– Total kWh L1

**00000000** – Total kWh L2

**00000000** – Total kWh L3

**91f2**- MODBUS CRC

This will translate to: **3cfdf3b6 – hex to float: 0.031 (Total kWh combined) [L1]**

**00000000 – N/A**

**00000000** **– N/A**

**Bytes decoding (hex to float) can be done by hex to float online converter:**[Floating Point to Hex Converter (gregstoll.com)](https://gregstoll.com/~gregstoll/floattohex/)