Eastron Decoder 1-phase – SDM230

1. Options enabled – 3 parameters: Voltage, Current and Total kWh

To enable the above, queue the following:

010300180002440C }

01100018000204447A0000C62C }

0103000E0002A5C8 }} Checking and setting the password for configuration.

0110FE120001020003FAEC } Set to 3 parameters at a time.

*0110fe1200010200057aee (Set to 5 parameters at a time if needed (replaces the message above.)*

Then:

**01 10 fe02 000f 1e 00020effffffffffffffffffffffffffffffffffffffffffffffffffffff126a**

Where:  
**01** - slave address

**10** - function code

**fe02** - address this setting is being sent to

**000f** - number of registers, 15

**1e** - number of bytes, 30 (2 bytes per register)

**00020effffffffffffffffffffffffffffffffffffffffffffffffffffff**  - the 30 bytes of parameters, we have turned on 00, 02 & 0e, all others are off (ff)

**126a** - MODBUS CRC

**That will result with such payload messages:**  
*For Example:*  
01354c090**10c**4369c2423dde4dd740ab5c2989fa  
  
**10c** suggests that this is the first message. Every message contains 3 values.

Data itself is in between the message after 0c and the last 2 bytes which are the Modbus CRC:  
**4369c242 3dde4dd7 40ab5c29**This will translate to: **4369c242 – hex to float: 233.759 (V)**

**3dde4dd7 – hex to float: 0.108547 (A)**

**40ab5c29 – hex to float: 5.355 (Total kWh)**

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