Eastron Decoder 1-phase – SDM230

**Options enabled – 3 parameters: Voltage, Frequency and Current**

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.

Then:

* **0110fe02000f1e000102ffffffffffffffffffffffffffffffffffffffffffffffffffffff4fa8**

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)

**000102ffffffffffffffffffffffffffffffffffffffffffffffffffffff** - the 30 bytes of parameters, we have turned on 00, 01 & 02, all others are off (ff)

**4fa8** - MODBUS CRC

That will result with such payload messages:  
  
*For Example:*  
01354c090**10c**436ace424247ce0c00000000eff2  
  
**10c** suggests that this is the first message. Every message contains 3 values.

Payload itself is contain after 0c message and last 2 bytes are CRC:  
**436ace42 4247ce0c 00000000**This will translate to: **436ace42 – hex to float: 234.806 (V)**

**4247ce0c – hex to float: 49.9512 (Hz)**

**00000000 – hex to float: 0.0 (A)**

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