**HIking-DDS238**

La integración con el medidor se logra realizar con librería de Python-PyModbus adicionalmente se realiza compendio de información con respecto a manejo de registros y comunicación vía RS485 con Modbus RTU.

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### Registros HIKING-DDS238

| **Mapa Registros DDS238 ModbusRTU** | | | | |
| --- | --- | --- | --- | --- |
| Nota importante a la hora de escribir registros: The meter does not understand the 'write single register' function code (06h), only the 'write multiple registers' function code (10h). | | | | |
|
| **Registro** | **Valor** | **Conversión** | **Tipo Dato** | **R/W** |
| 0000h | Total Energy High | 1/100 KWh | unsigned dword | R |
| 0001h | Total Energy Low | 1/100 KWh | unsigned dword | R |
| 0002h | reserved |  |  |  |
| 0003h | reserved |  |  |  |
| 0004h | reserved |  |  |  |
| 0005h | reserved |  |  |  |
| 0006h | reserved |  |  |  |
| 0007h | reserved |  |  |  |
| 0008h | Export Energy High | 1/100 KWh | unsigned dword | R |
| 0009h | Export Energy LOw | 1/100 KWh | unsigned dword | R |
| 0010h | Power Factor | 1/1000 | unsigned word | R |
| 0011h | Frequency | unsigned word | unsigned word | R |
| 0012h | reserved |  |  |  |
| 0013h | reserved |  |  |  |
| 0014h | reserved |  |  |  |
| 0015h | station address (High) - Baud Rate (Low) | 1-247 - unsigned char | unsigned char | R/W |
| 000Ah | Import Energy High | 1/100 KWh | unsigned dword | R |
| 000Bh | Import Energy Low | 1/100 KWh | unsigned dword | R |
| 000Ch | Voltaje | 1/10V | unsigned word | R |
| 000Dh | Current | 1/100 A | unsigned word | R |
| 000Eh | Active Power | 1W | unsigned word | R |
| 000Fh | Reactive Power | 1 VAr | unsigned word | R |
| 001Ah | Relay | unsigned word | unsigned word | R/W |

EL medidor no interpreta el comando (06h) en su caso si interpreta el (10h) a la hora de escritura en registros.

Baudrate está definido como

* 1 - 9600 baudios
* 2 - 4800 baudios
* 3- 2400 baudios
* 4- 1200 baudios

De igual manera los estados del relé están definidos como

* 0 - OFF
* 1 - ON

### Test PyModbus

https://github.com/23ft/HIKING-DDS238-2/tree/main