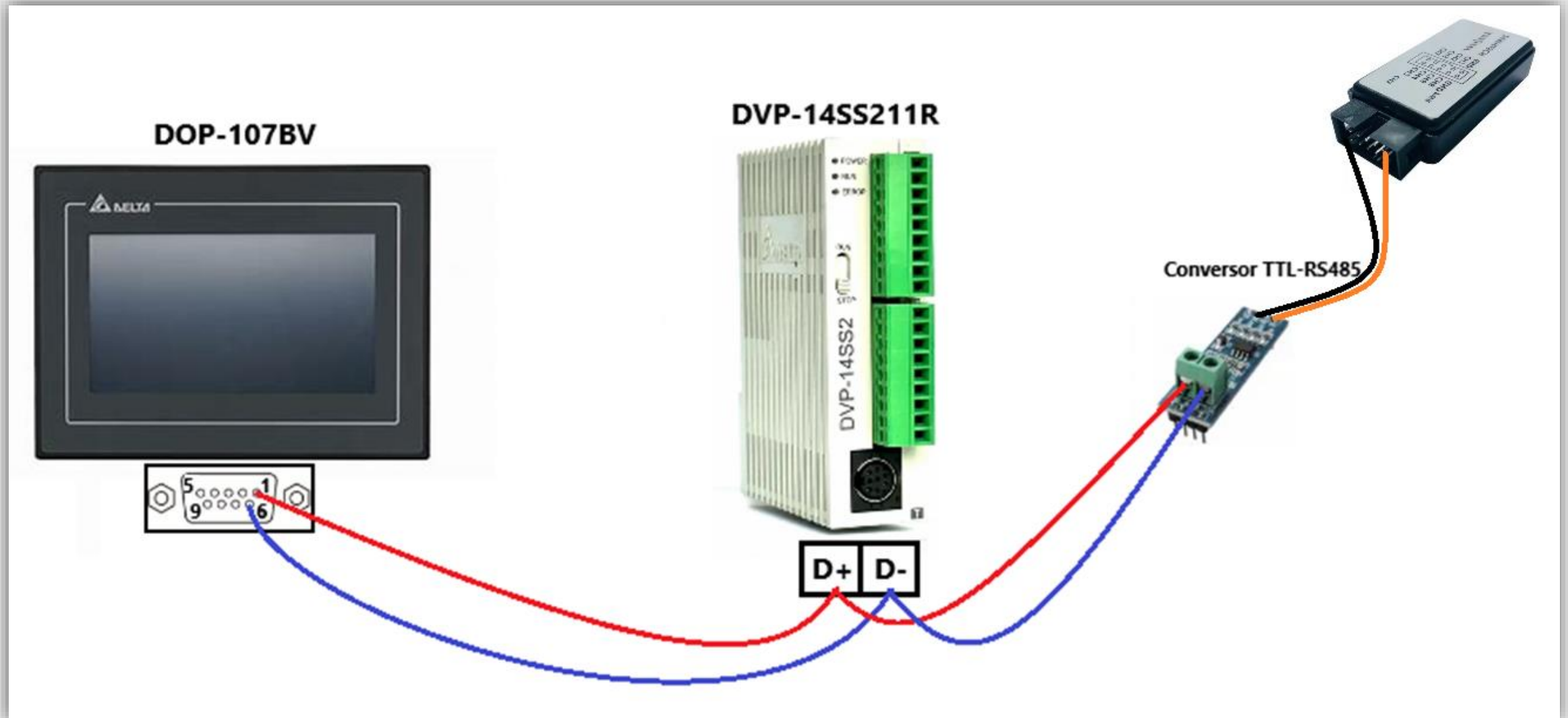


MODBUS Modo RTU – Rede RS-485

“Remote Terminal Unit”



MODBUS Modo RTU – Analisador Lógico Saleae



MODBUS Modo RTU – Configuração DVP

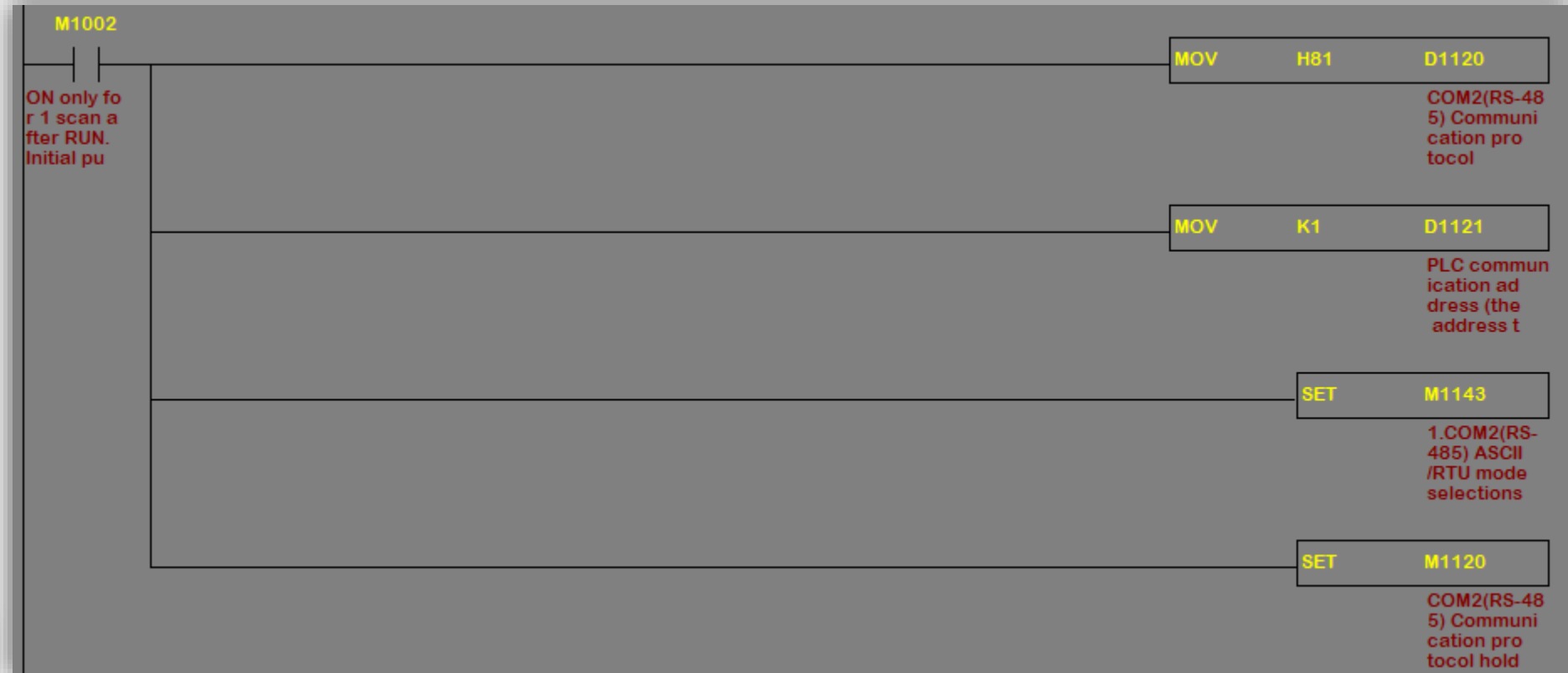
- 9600 (Baud Rate)
- 8 (Bits de Dados)
- None (Paridade)
- 1 (Stop Bit)

	Content	
b0	Data Length	0: 7 data bits, 1: 8 data bits (RTU supports 8 data bits only)
b1 b2	Parity bit	00: None 01: Odd 11: Even
b3	Stop bits	0: 1 bit, 1: 2bits
b4 b5 b6 b7	Baud rate	0100(H4): 600 0101(H5): 1200 0110(H6): 2400 0111(H7): 4800 1000(H8): 9600 1001(H9): 19200 1010(HA): 38400 1011(HB): 57600 1100(HC): 115200 1101(HD): 500000 (COM2 / COM3) 1110(HE): 31250 (COM2 / COM3) 1111(HF): 921000 (COM2 / COM3)



MODBUS Modo RTU – Configuração DVP

- 9600 (Baud Rate)
- 8 (Bits de Dados)
- None (Paridade)
- 1 (Stop Bit)



Item \ Port	COM1	COM2	COM3
Communication format	D1036	D1120	D1109
Communication setting holding	M1138	M1120	M1136
ASCII/RTU mode	M1139	M1143	M1320
Slave communication address		D1121	D1255

MODBUS Modo RTU – Configuração IHM

Communication Settings

☒ Connection

Link Name: Link1

Manufacturers: Modbus

series: RTU Hex Address (Master)

Main Extra

Communication Parameters

HMI Station: 0

Interface: RS485

Data Bits: 8 Bits

Stop Bits: 1 Bits

Baud Rate: 9600

Parity Bits: None

Controller

PLC Station: 1

Password: 12345678

Comm. Delay Time(ms): 25

Connection Timeout(ms): 100

Connect Retries: 2

☐ Optimize



Bit M0



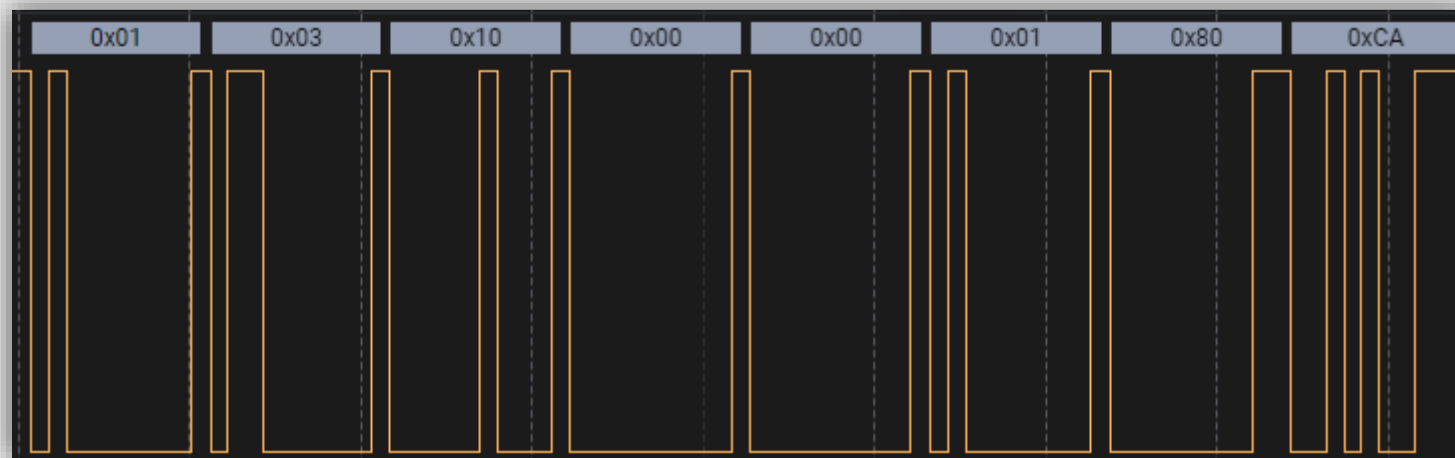
Registrador D0

MODBUS Modo RTU – Consulta e Resposta

QUERY		
Field Name	Example (Hex)	RTU 8–Bit Field
Header		None
Slave Address	06	0000 0110
Function	03	0000 0011
Starting Address Hi	00	0000 0000
Starting Address Lo	6B	0110 1011
No. of Registers Hi	00	0000 0000
No. of Registers Lo	03	0000 0011
Error Check		CRC (16 bits)
Trailer		None
Total Bytes:		8

RESPONSE		
Field Name	Example (Hex)	RTU 8–Bit Field
Header		None
Slave Address	06	0000 0110
Function	03	0000 0011
Byte Count	06	0000 0110
Data Hi	02	0000 0010
Data Lo	2B	0010 1011
Data Hi	00	0000 0000
Data Lo	00	0000 0000
Data Hi	00	0000 0000
Data Lo	63	0110 0011
Error Check		CRC (16 bits)
Trailer		None
Total Bytes:		11

MODBUS Modo RTU – Consulta Função 03

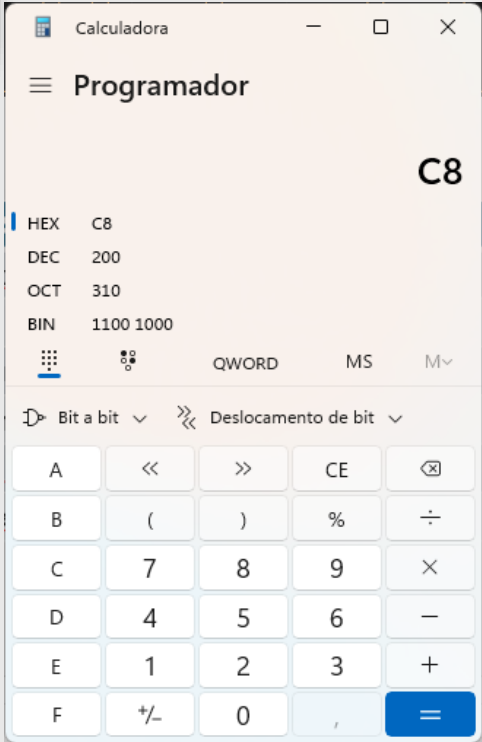


QUERY	8 Bytes
Slave Address	0x01
Function	0x03
Start Address High	0x10
Start Address Low	0x00
Number of Registers High	0x00
Number of Registers Low	0x01
Error Check	0x80CA

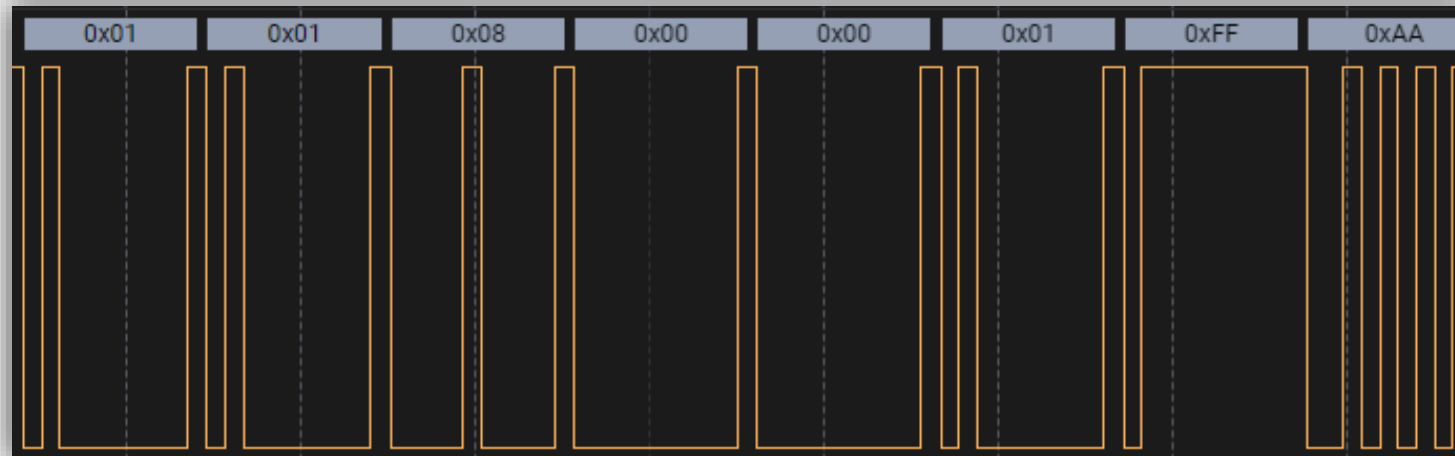
MODBUS Modo RTU – Resposta Função 03



RESPONSE	7 Bytes
Slave Address	0x01
Function	0x03
Byte Count	0x02
Data High	0x00
Data Low	0xC8
Error Check	0xB9D2

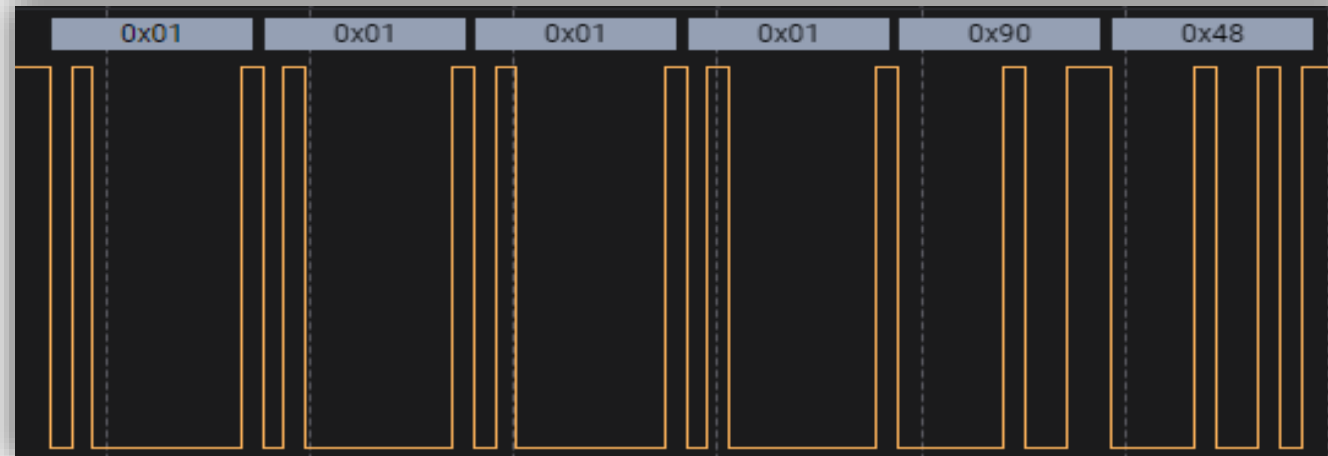


MODBUS Modo RTU – Consulta Função 01



QUERY	8 Bytes
Slave Address	0x01
Function	0x01
Start Address High	0x08
Start Address Low	0x00
Number of Points High	0x00
Number of Points Low	0x01
Error Check	0xFFAA

MODBUS Modo RTU – Resposta Função 01



RESPONSE	6 Bytes
Slave Address	0x01
Function	0x01
Byte Count	0x01
Data	0x01
Error Check	0x9048

MODBUS Modo RTU – Consulta Função 05



QUERY	8 Bytes
Slave Address	0x01
Function	0x05
Start Address High	0x08
Start Address Low	0x00
Force Data High	0xFF
Force Data Low	0x00
Error Check	0x8E5A

MODBUS Modo RTU – Resposta Função 05



QUERY	8 Bytes
Slave Address	0x01
Function	0x05
Start Address High	0x08
Start Address Low	0x00
Force Data High	0xFF
Force Data Low	0x00
Error Check	0x8E5A