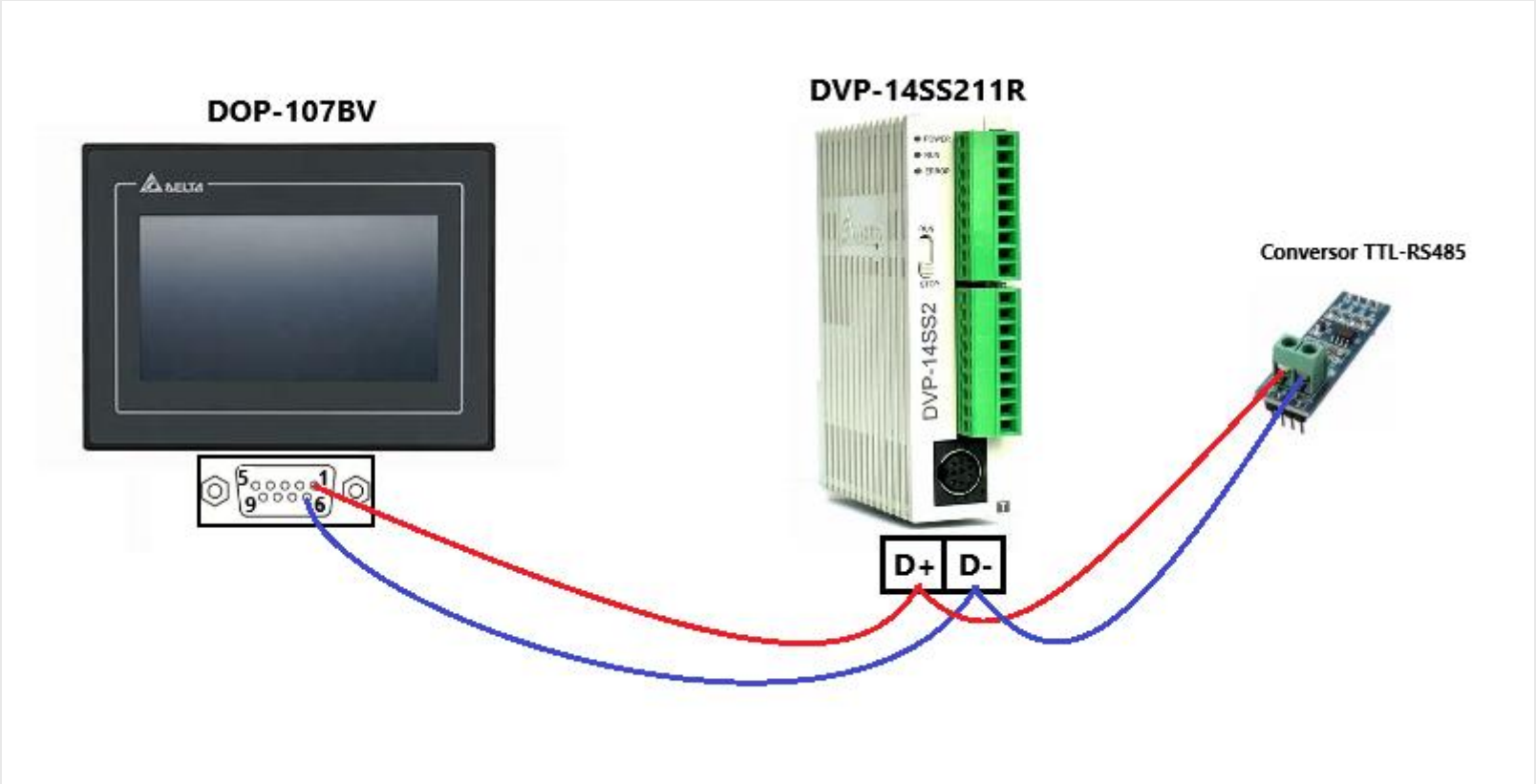
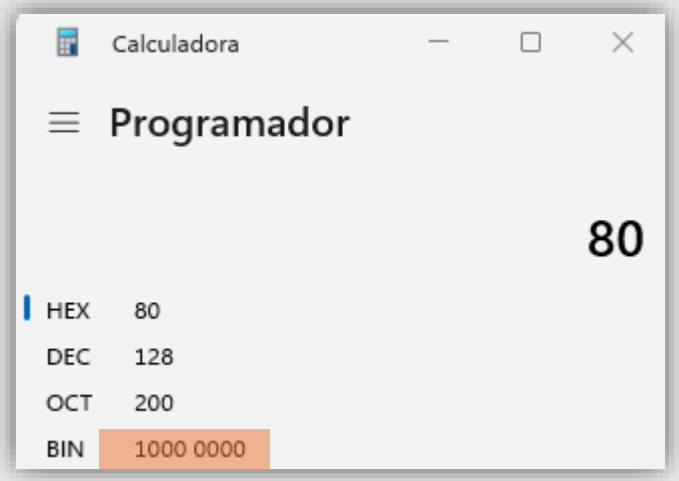
MODBUS Modo ASCII – Rede RS-485



MODBUS Modo ASCII – Analisador Lógico Saleae

MODBUS Modo ASCII – Configuração DVP

- 9600 (Baud Rate)
- 7 (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 ASCII – Configuração DVP

- 9600 (Baud Rate)
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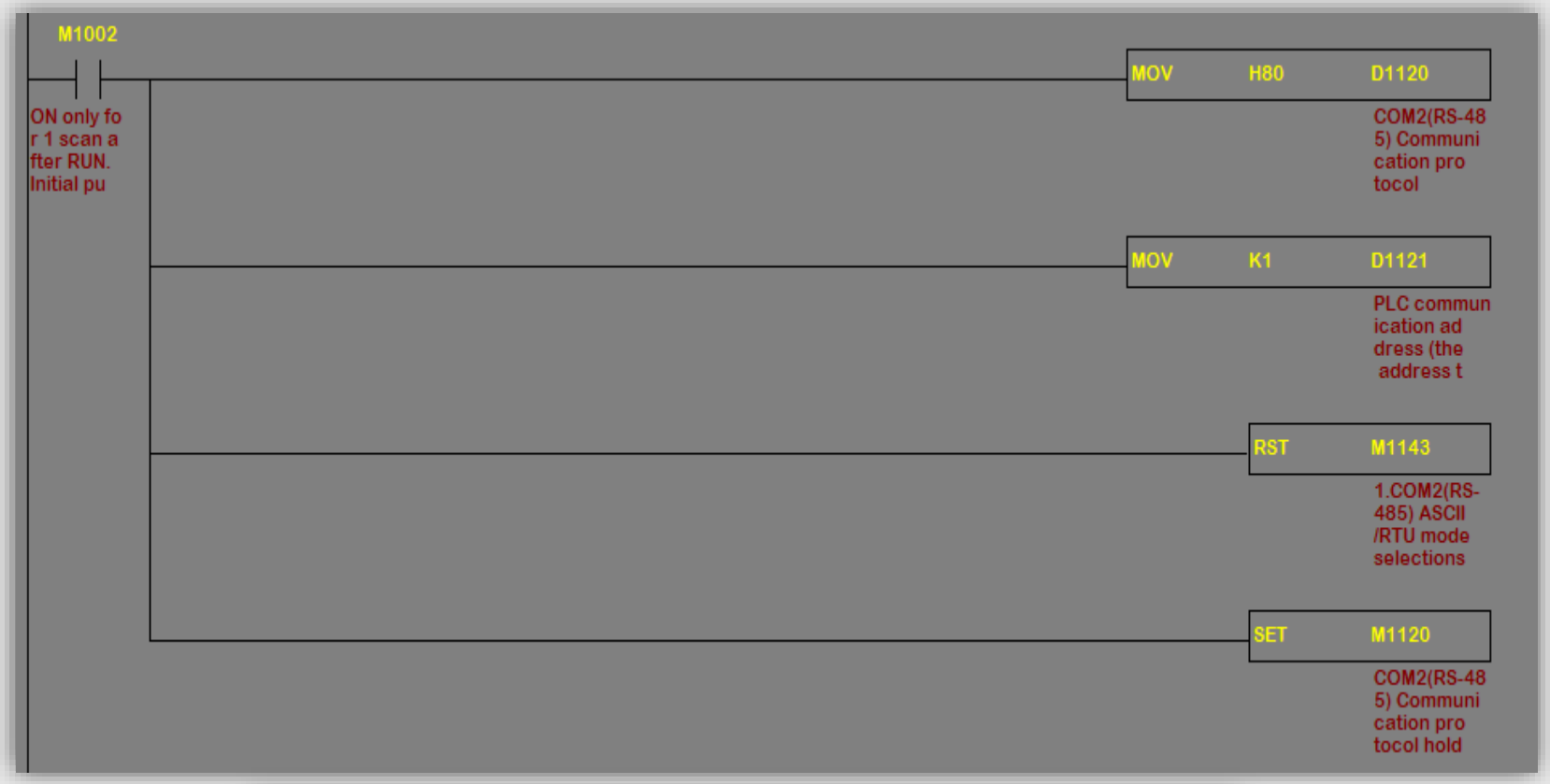
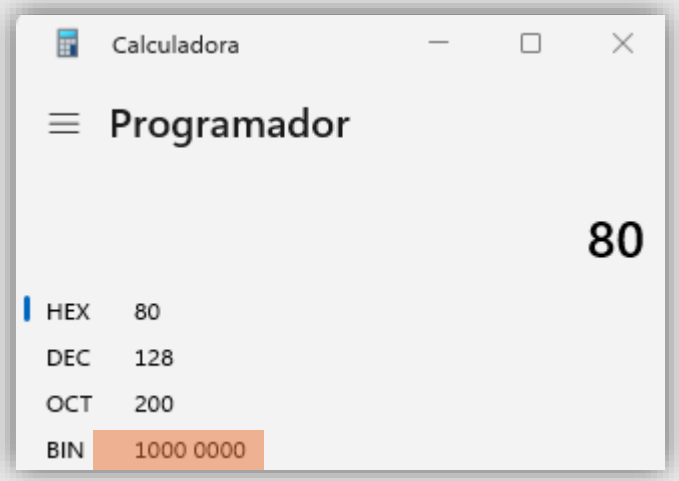
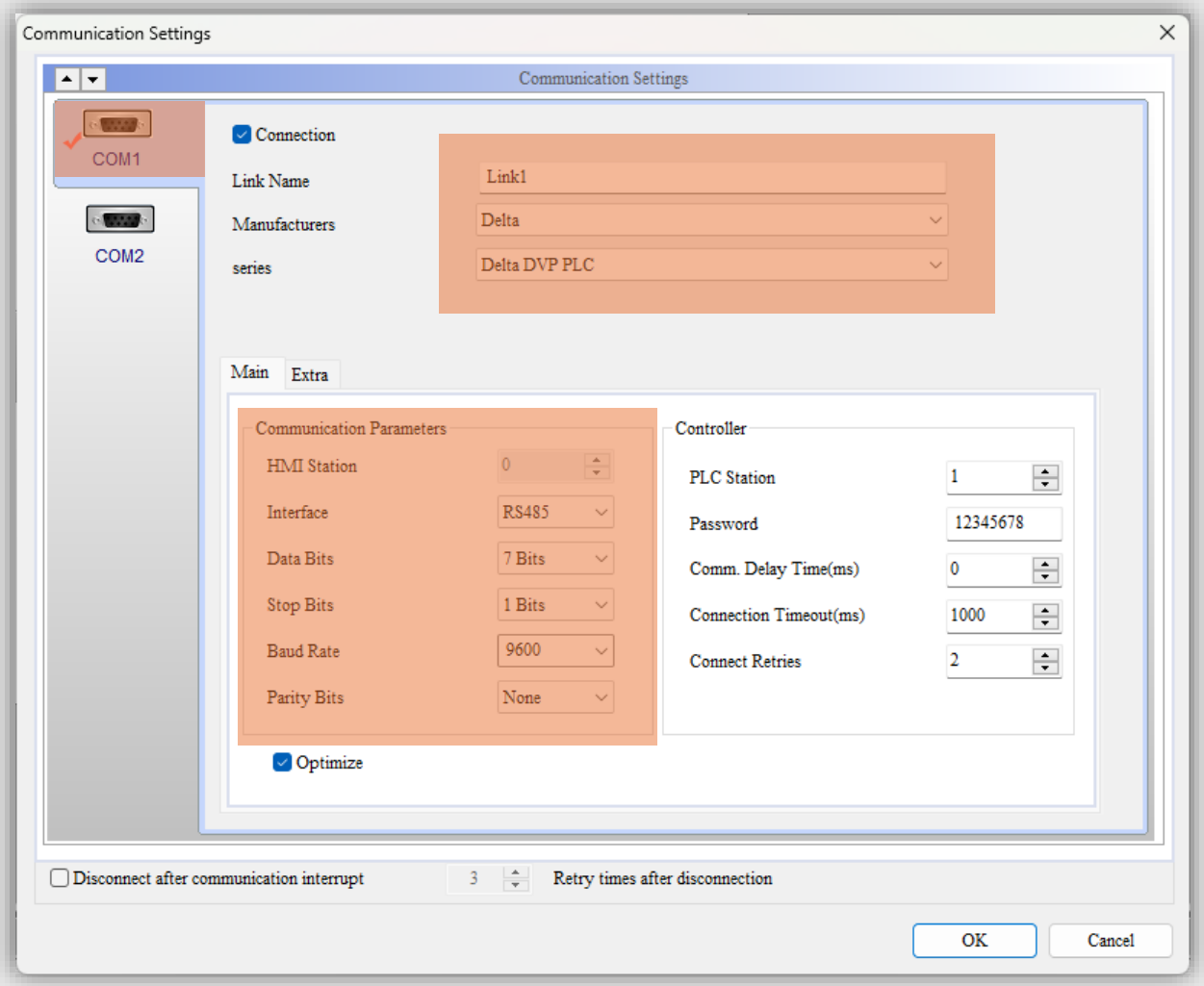
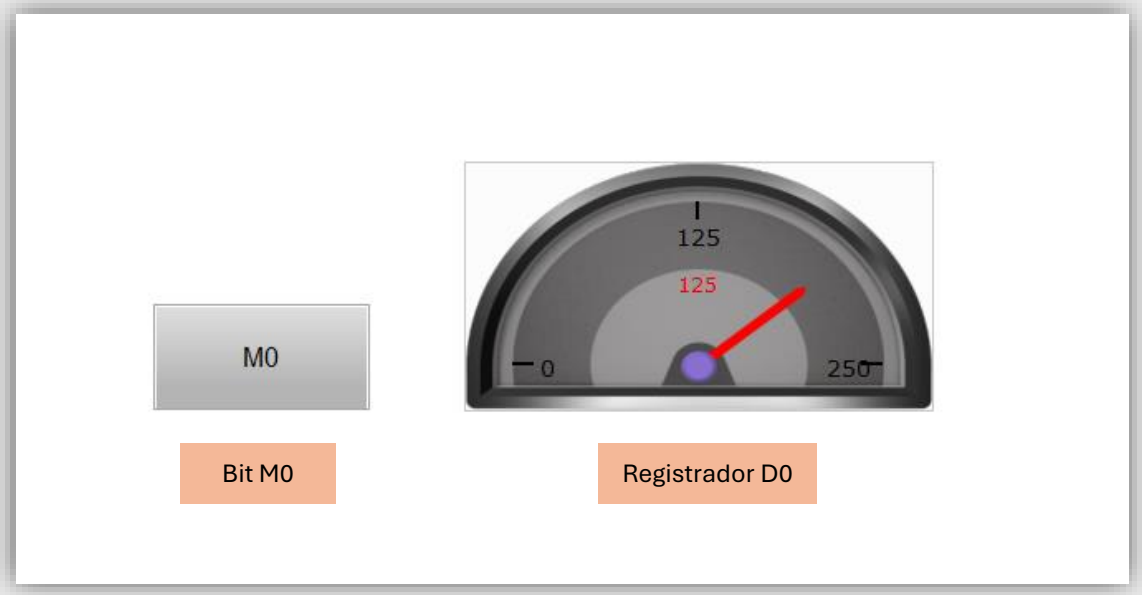




Item \ Port	COM1	COM2	COM3
Communication format	D1036	D1120	D1109
Communication setting holding	M1138	M1120	M1136
ASCII/RTU mode	M1139	M1143	M1320
Slave communication address		D1121	D1255

MODBUS Modo ASCII – Configuração IHM





MODBUS Modo ASCII – Consulta e Resposta

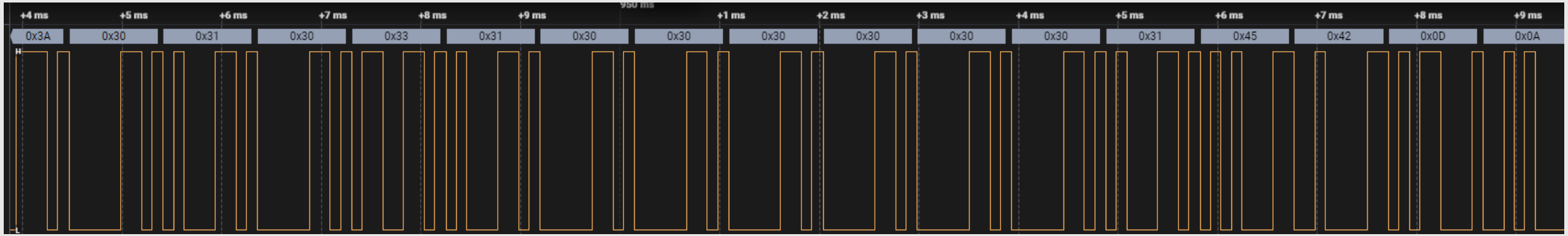
QUERY

Field Name	Example (Hex)	ASCII Characters
Header		: (colon)
Slave Address	06	0 6
Function	03	0 3
Starting Address Hi	00	0 0
Starting Address Lo	6B	6 B
No. of Registers Hi	00	0 0
No. of Registers Lo	03	0 3
Error Check		LRC (2 chars.)
Trailer		CR LF
	Total Bytes:	17

RESPONSE

Field Name	Example (Hex)	ASCII Characters
Header		: (colon)
Slave Address	06	0 6
Function	03	0 3
Byte Count	06	0 6
Data Hi	02	0 2
Data Lo	2B	2 B
Data Hi	00	0 0
Data Lo	00	0 0
Data Hi	00	0 0
Data Lo	63	6 3
Error Check		LRC (2 chars.)
Trailer		CR LF
	Total Bytes:	23

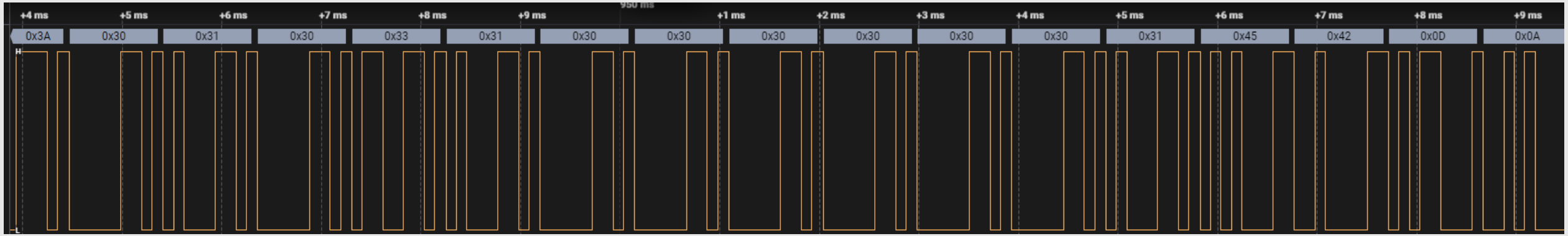
MODBUS Modo ASCII – Consulta



: 0 1 0 3 1 0 0 0 0 0 0 1 E B CR LF

hex	char	hex	char
30	0	41	A
31	1	42	B
32	2	43	C
33	3	44	D
34	4	45	E
35	5	46	F
36	6	a	LF
37	7	d	CR
38	8	3a	:
39	9		

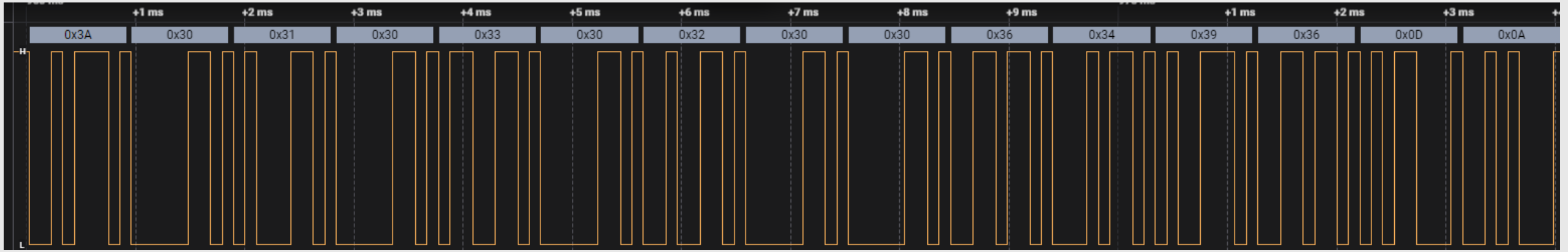
MODBUS Modo ASCII – Consulta Função 03



: 0 1 0 3 1 0 0 0 0 0 0 1 E B CR LF

QUERY	17 Bytes
Header	:
Slave Address	01
Function	03
Start Address High	10
Start Address Low	00
Number of Registers High	00
Number of Registers Low	01
Error Check	EB
Trailer	CRLF

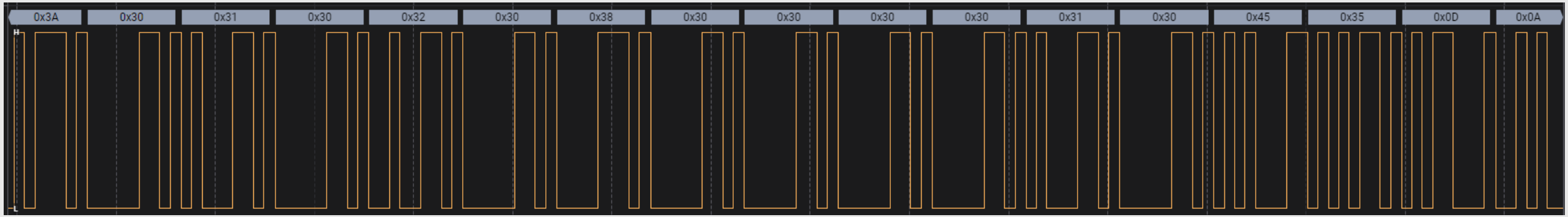
MODBUS Modo ASCII – Resposta Função 03



: 0 1 0 3 0 2 0 0 6 4 9 6 CR LF

RESPONSE	15 Bytes
Header	:
Slave Address	01
Function	03
Byte Count	02
Data High	0
Data Low	0
Data High	6
Data Low	4
Error Check	96
Trailer	CRLF

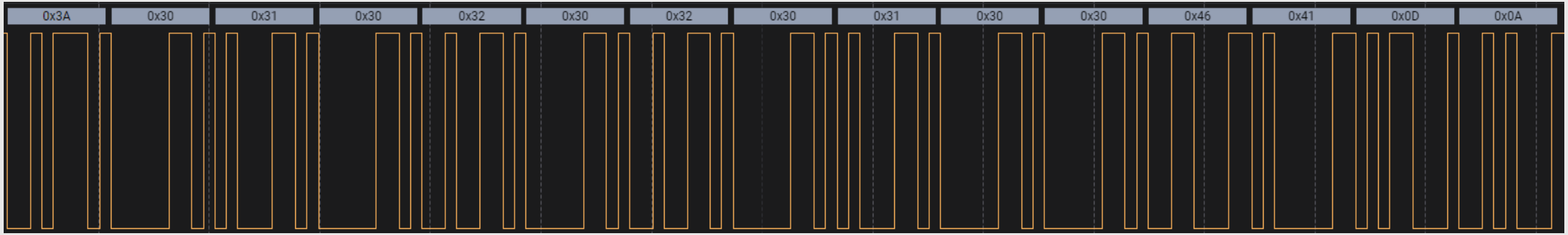
MODBUS Modo ASCII – Consulta Função 02



: 0 1 0 2 0 8 0 0 0 0 1 0 E 5 CR LF

QUERY	17 Bytes
Header	:
Slave Address	01
Function	02
Start Address High	08
Start Address Low	00
Number of Points High	00
Number of Points Low	10
Error Check	E5
Trailer	CRLF

MODBUS Modo ASCII – Resposta Função 02



: 0 1 0 2 0 2 0 1 0 0 E A CR LF

RESPONSE	15 Bytes
Header	:
Slave Address	01
Function	02
Byte Count	02
Data	01
Data	00
Error Check	EA
Trailer	CRLF