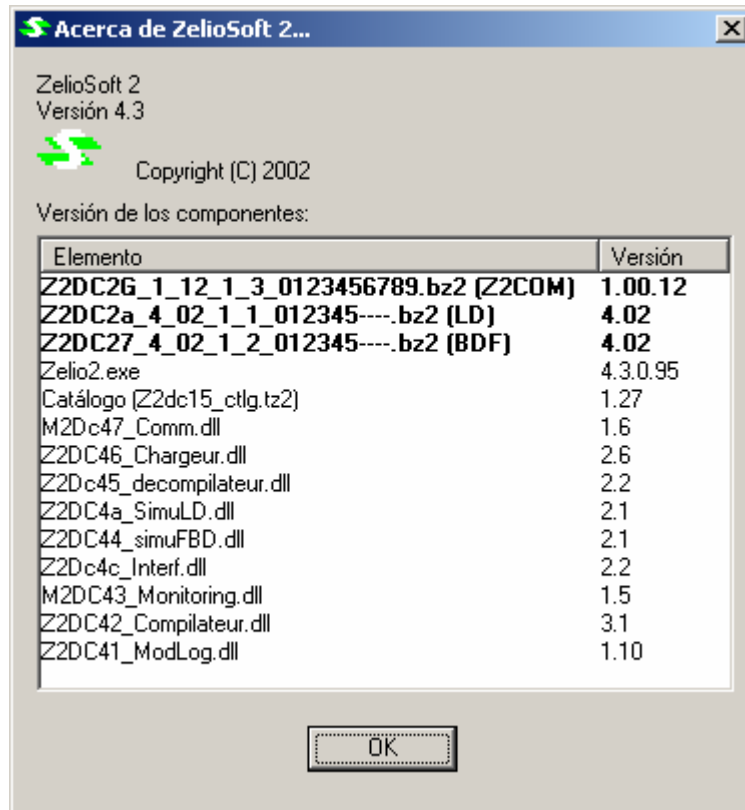




Comunicación PC-Zelio vía Modbus

Versión de ZelioSoft






Configuración

Selección del módulo

Seleccionar la categoría del módulo



Seleccionar el tipo de módulo Zelio que se desea programar

Alimentación	Entradas digitales	Entradas mixtas DIG/Analógica	Salidas digitales	Pantalla teclado	Reloj	Idioma	Referencia
24VDC	10 DIG	6 (0-10V)	10 RELÉ	Sí	Sí	BDF/LD	SR3B261BD
24VDC	10 DIG	6 (0-10V)	10 DIG STATI	Sí	Sí	BDF/LD	SR3B262BD
24VAC	16 DIG	-	10 RELÉ	Sí	Sí	BDF/LD	SR3B261B
100-240VAC	16 DIG	-	10 RELÉ	Sí	Sí	BDF/LD	SR3B261FU
12VDC	10 DIG	6 (0-10V)	10 RELÉ	Sí	Sí	BDF/LD	SR3B261JD


Siguiente > Cancelar Ayuda



Selección del módulo

Selección actual

Tipo	SR3B262BD
Alimentación	24VDC
Entradas	10 DIG + 6 (0-10V)
Salidas	10 DIG STATIQUE
Reloj	Sí
Idioma	BDF/LD



Seleccionar las extensiones

Extensiones compatibles

Tipo	Referencia	Entradas	Salidas
SR3XT61BD	88960211	4 DIG	2 RELÉ
SR3XT101BD	88960221	6 DIG	4 RELÉ
SR3XT141BD	88960231	8 DIG	6 RELÉ
SR3MBU01	88960250	4 ENTEROS	4 ENTEROS
SR3XT43BD	88960241	2 ANALÓG 10 BITS	2 ANALÓG 10 BITS
SR3NET01	88960270	4 INTEGERS	4 INTEGERS
SR3CPU01	88960117	NINGUNO	NINGUNO

Añadir Suprimir

Número total de entradas/salidas

Extensiones seleccionadas

Tipo	Referencia	Entradas	Salidas
XT1 : SR3MBU01	88960250	4 ENTEROS	4 ENTEROS

< Atrás Siguiente > Cancelar Ayuda



Selección del módulo

Selección actual

Referencia	SR3B262BD
Alimentación	24VDC
Entradas	10 DIG + 6 (0-10V)
Salidas	10 DIG STATIQUE
Reloj	Sí
Idioma	BDF

Número total de entradas/salidas: 20 E/14 S

Extensiones no contiguas

1	No seleccionado
Extensiones	
1	SR3MBU01
2	No seleccionado

Seleccionar el tipo de programación

Ladder

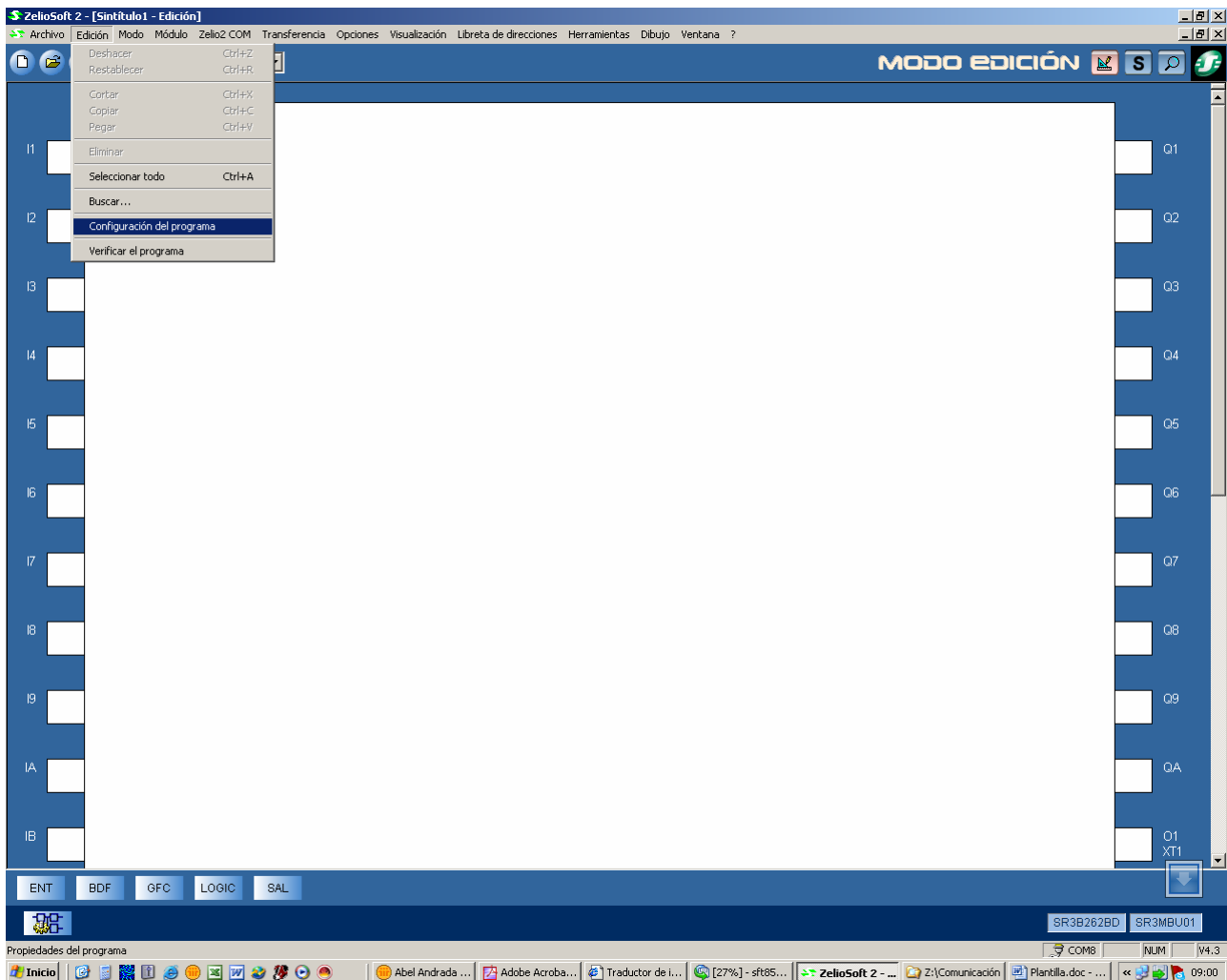
BDF

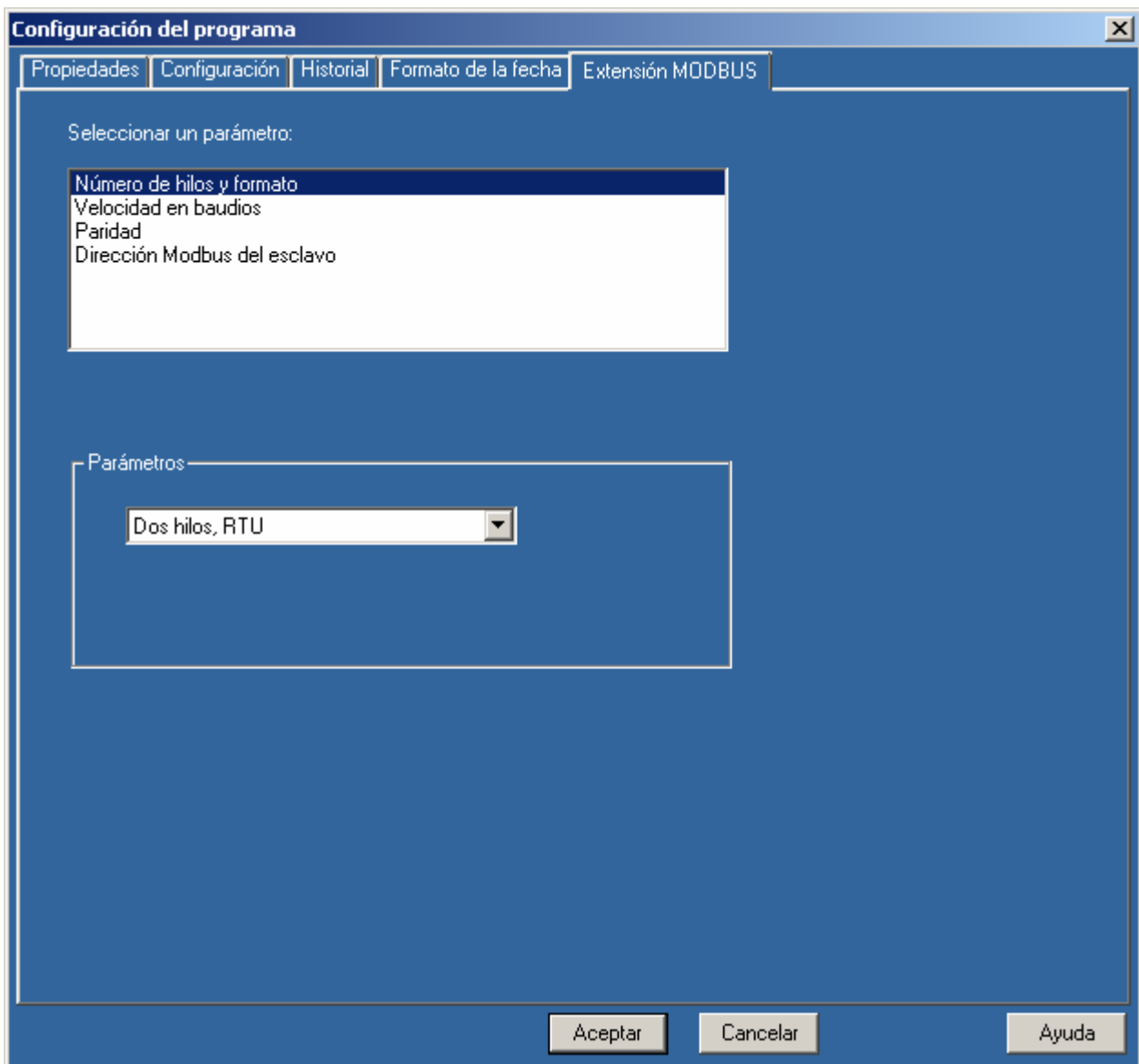
< Atrás Siguiete > Cancelar Ayuda

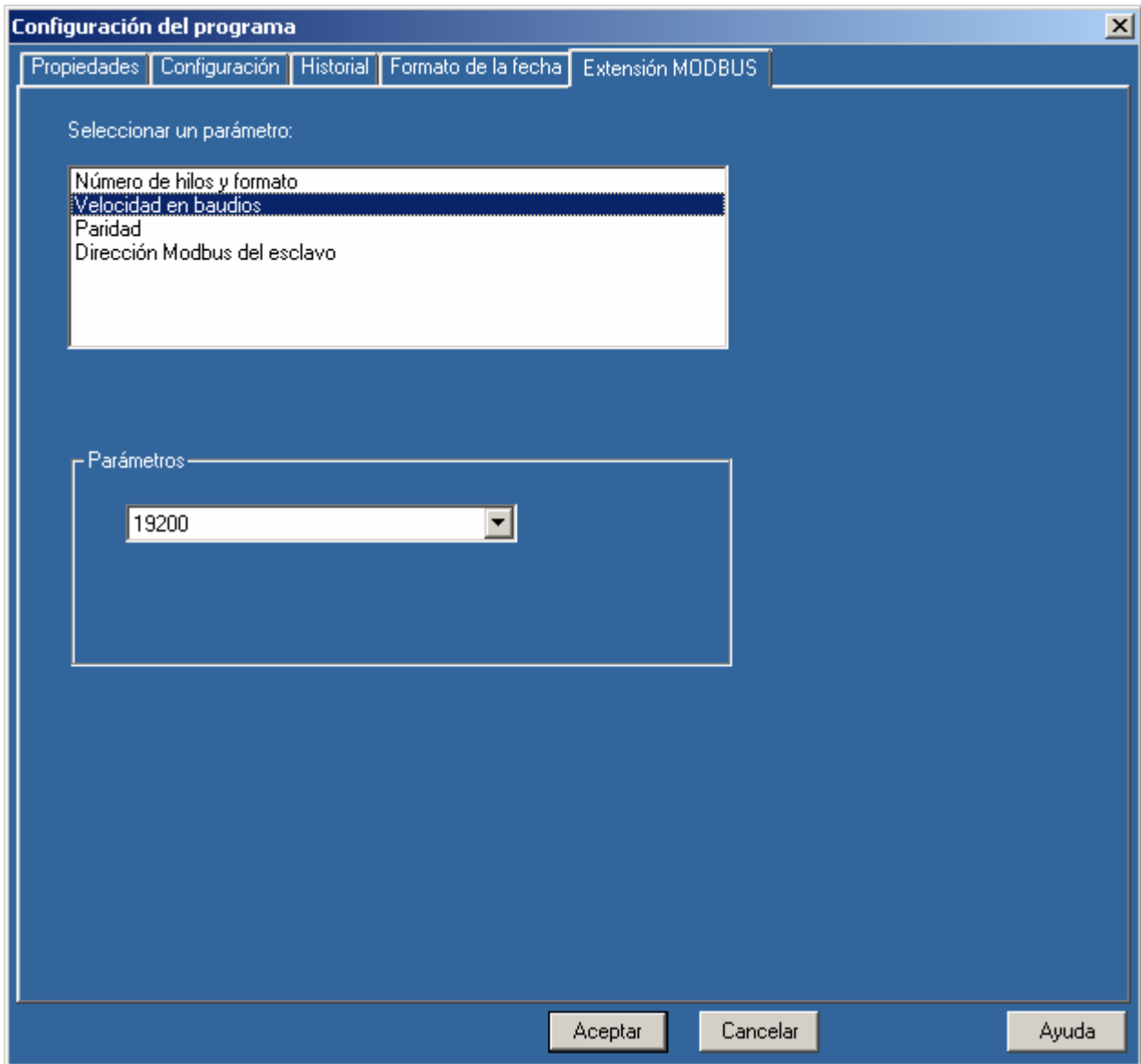


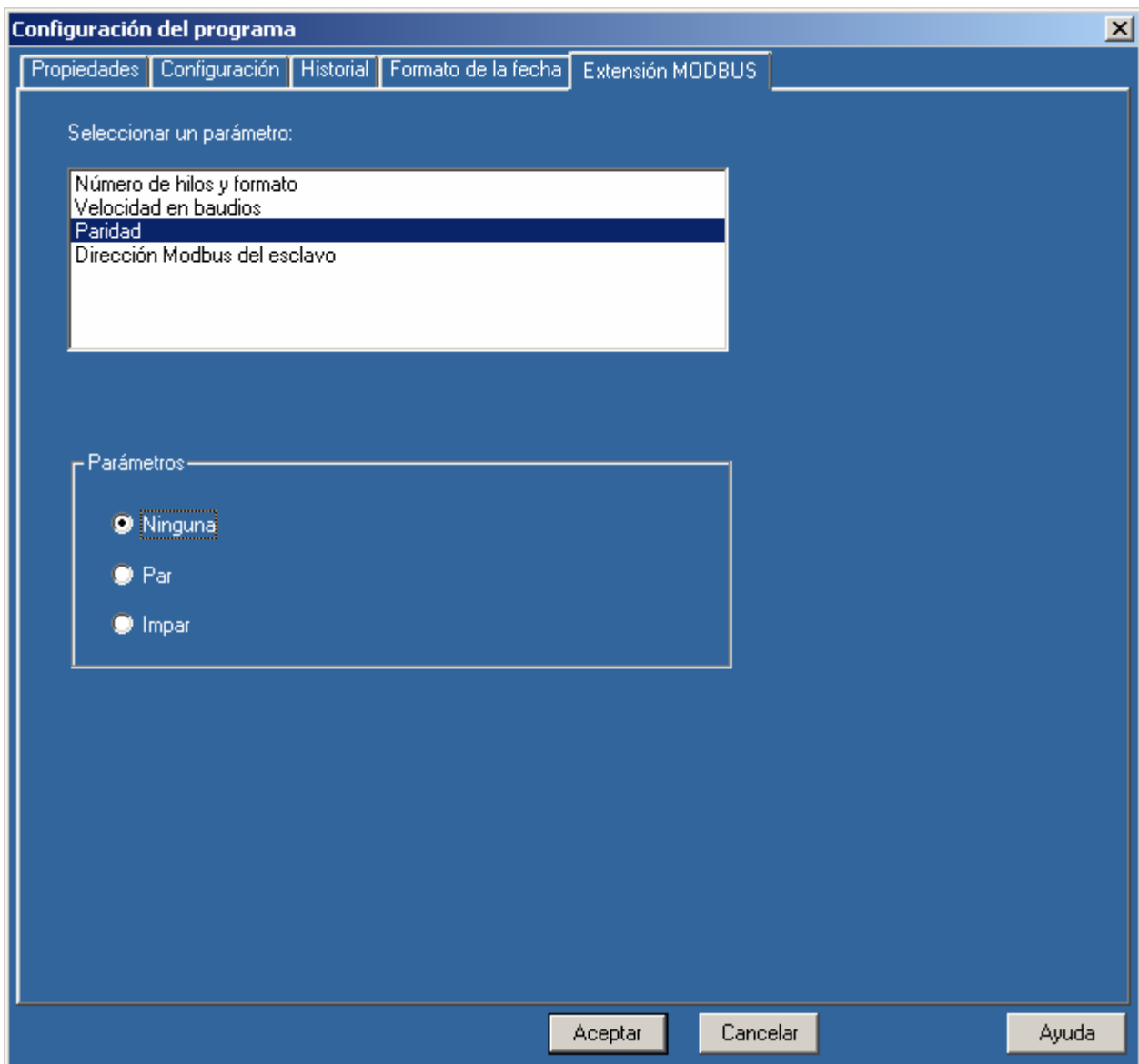
Configuración del puerto Modbus

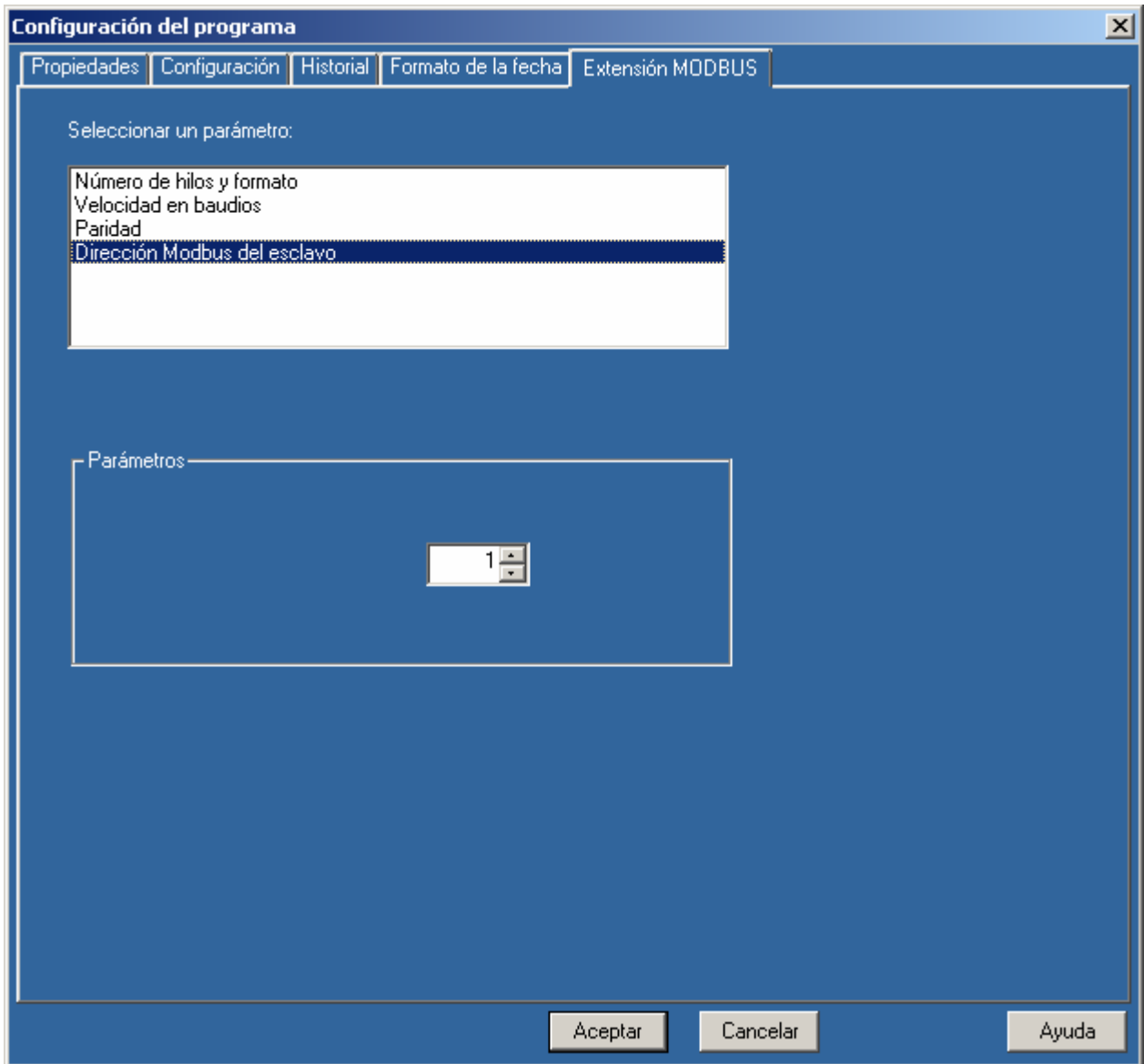
2 hilos RTU, 19200, Sin Paridad y dirección 1



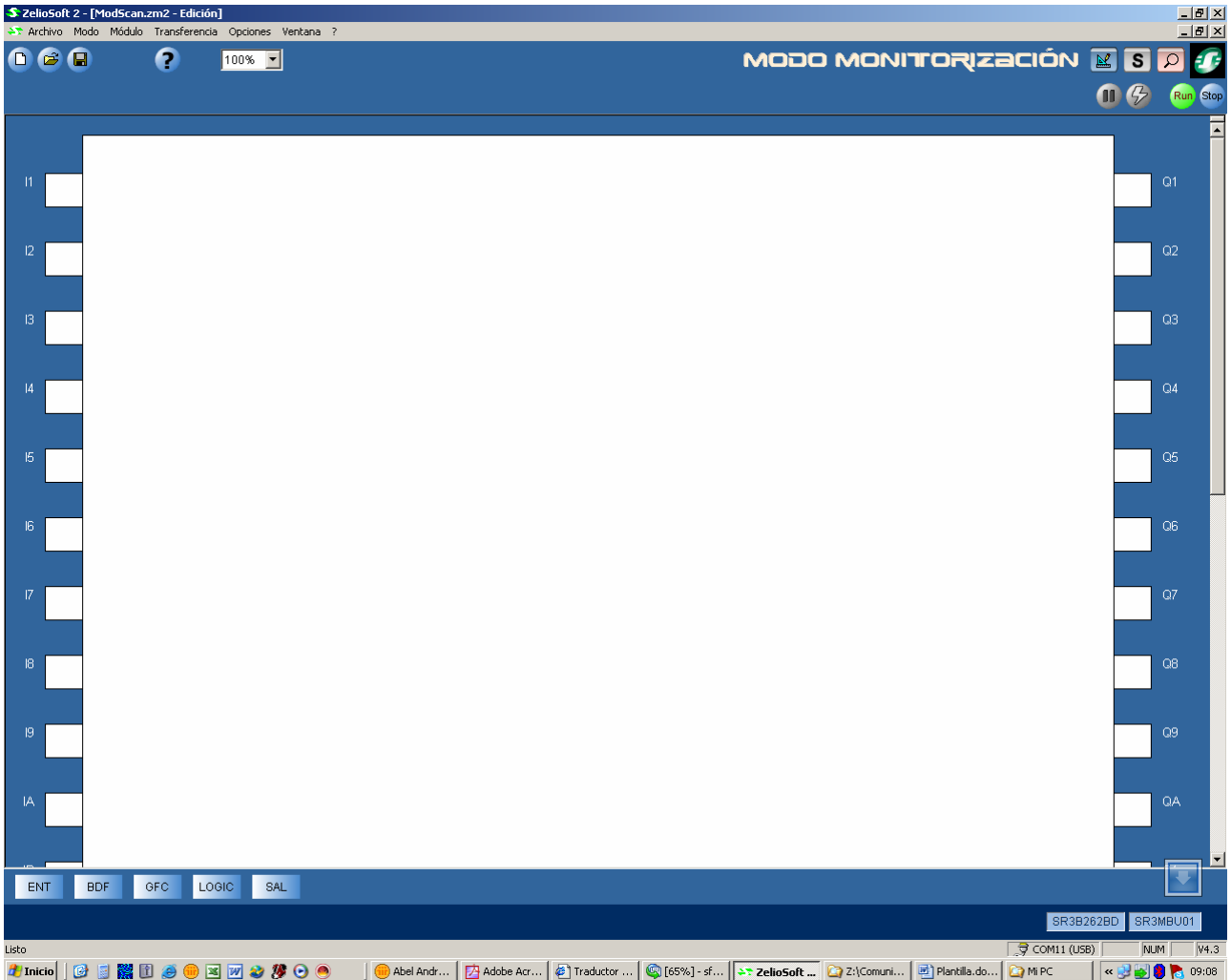








Descargamos la aplicación, en éste caso vacía, y lo ponemos en run

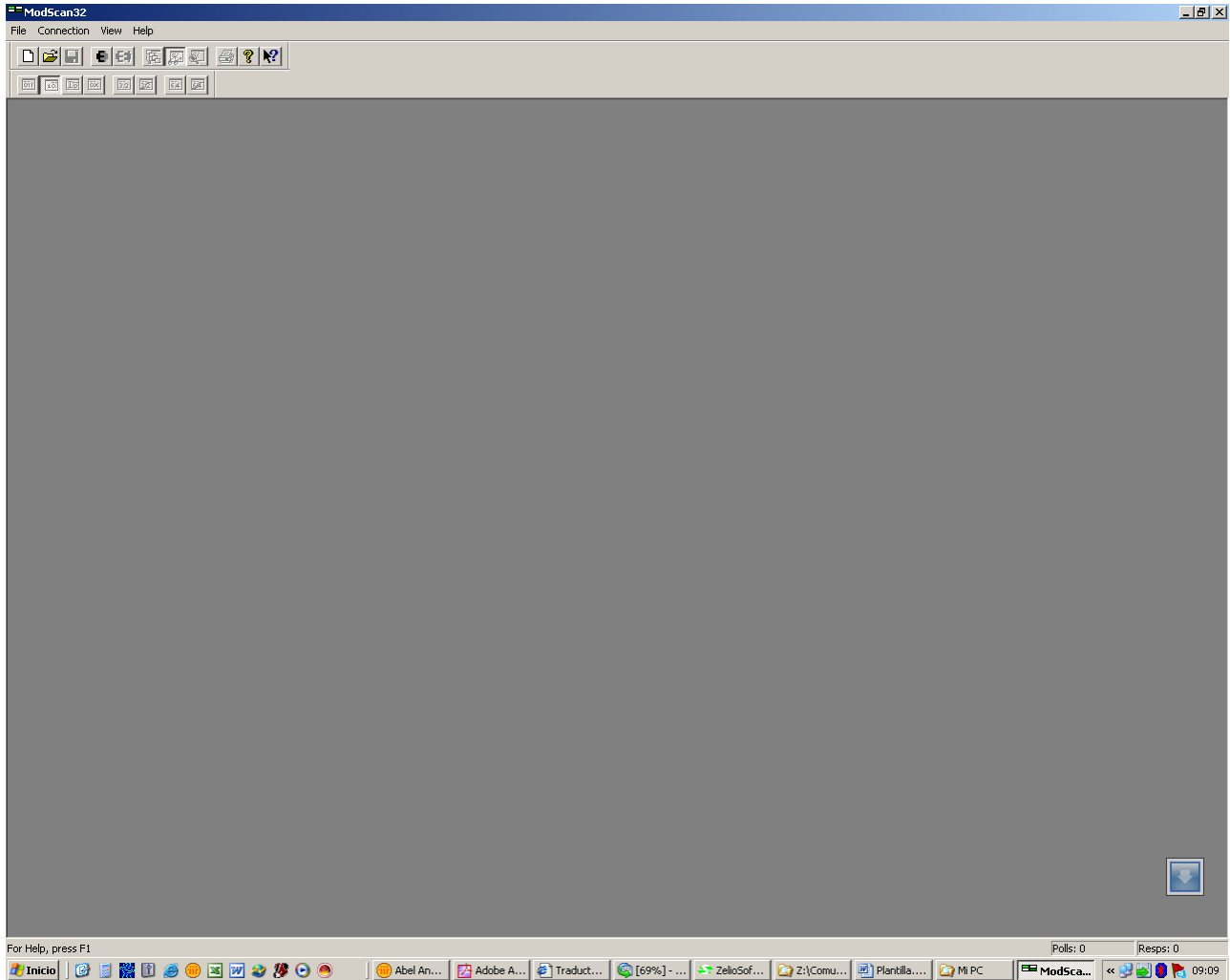




Schneider On Line



Abrimos ahora el ModScan





Connection Details [X]

Connect Using:
Direct Connection to COM1

Phone Number: 10.160.2.247

Service Port: 502

Configuration

Baud Rate: 19200

Word Length: 8

Parity: NONE

Stop Bits: 1

Hardware Flow Control

Wait for DSR from slave

Wait for CTS from slave

DTR Control: DISABLE

RTS Control: DISABLE

Delay: 0 ms after RTS before transmitting first character

Delay: 0 ms after last character before releasing RTS

Protocol Selections

OK Cancel

Modbus Protocol Selections [X]

Transmission Mode

STANDARD DANIEL/ENRON/OMNI

ASCII RTU ASCII RTU

Slave Response Timeout: 2000 (msecs)

Delay Between Polls: 250 (msecs)

Force modbus command 15 and 16 for single-point writes.
(To be used in cases where the slave does not support the single-point write functions 05 and 06.)

OK Cancel



Veamos el mapa modbus del Zelio

Maître/Master		ZELIO FBD				ZELIO Ladder																		
Modbus address						Bits																		
IEC	Standard	Word				15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0			
% MW 16	4001 + 16	Entrées Inputs	J1XT1		L/E R/W	-																		
% MW 17	4001 + 17		J2XT1																					
% MW 18	4001 + 18		J3XT1																					
% MW 19	4001 + 19		J4XT1																					
% MW 20	4001 + 20	Sorties Outputs	O1XT1		Lecture Read	Base inputs	IG	IF	IE	ID	IC	IB	IA	I9	I8	I7	I6	I5	I4	I3	I2	I1		
% MW 21	4001 + 21		O2XT1			Extension inputs										IR	IQ	IP	IN	IL	IK	IJ	IH	
% MW 22	4001 + 22		O3XT1			Base outputs									QA	Q9	Q8	Q7	Q6	Q5	Q4	Q3	Q2	Q1
% MW 23	4001 + 23		O4XT1			Extension outputs													QG	QF	QE	QD	QC	QB
% MW 32	4001 + 32	Horloge Clock	Seconds	Week day	L/E R/W	-																		
% MW 33	4001 + 33		Hours	Minutes		Horloge Clock	Seconds								Week day									
% MW 34	4001 + 34		Month	Day/month			Hours	Minutes								Minutes								
% MW 35	4001 + 35		Century	year		Month	Day/month								Day/month									
			Century	year		Century	year								year									
		Status				Status																		
% MW 48	4001 + 48	Alarm code	7	3	2	1	0	Code default / Alarm code							7	3			2	1	0			

1=Time out Default

1=Run
0=Stop

1=Monitoring
1=Alarm

1=Error

1=Time out Default

1=Run
0=Stop

1=Monitoring
1=Alarm

1=Error

Podremos ver el reloj a partir de la dirección 400033.



The screenshot shows the ModScan32 software interface. At the top, there is a menu bar with 'File', 'Connection', 'Setup', 'View', 'Window', and 'Help'. Below the menu is a toolbar with various icons. The main configuration area contains the following fields:

- Address: 0033
- Device Id: 1
- MODBUS Point Type: 03: HOLDING REGISTER
- Number of Polls: 110
- Valid Slave Responses: 105
- Length: 4
- Reset Ctrs button

The data display area shows the following values:

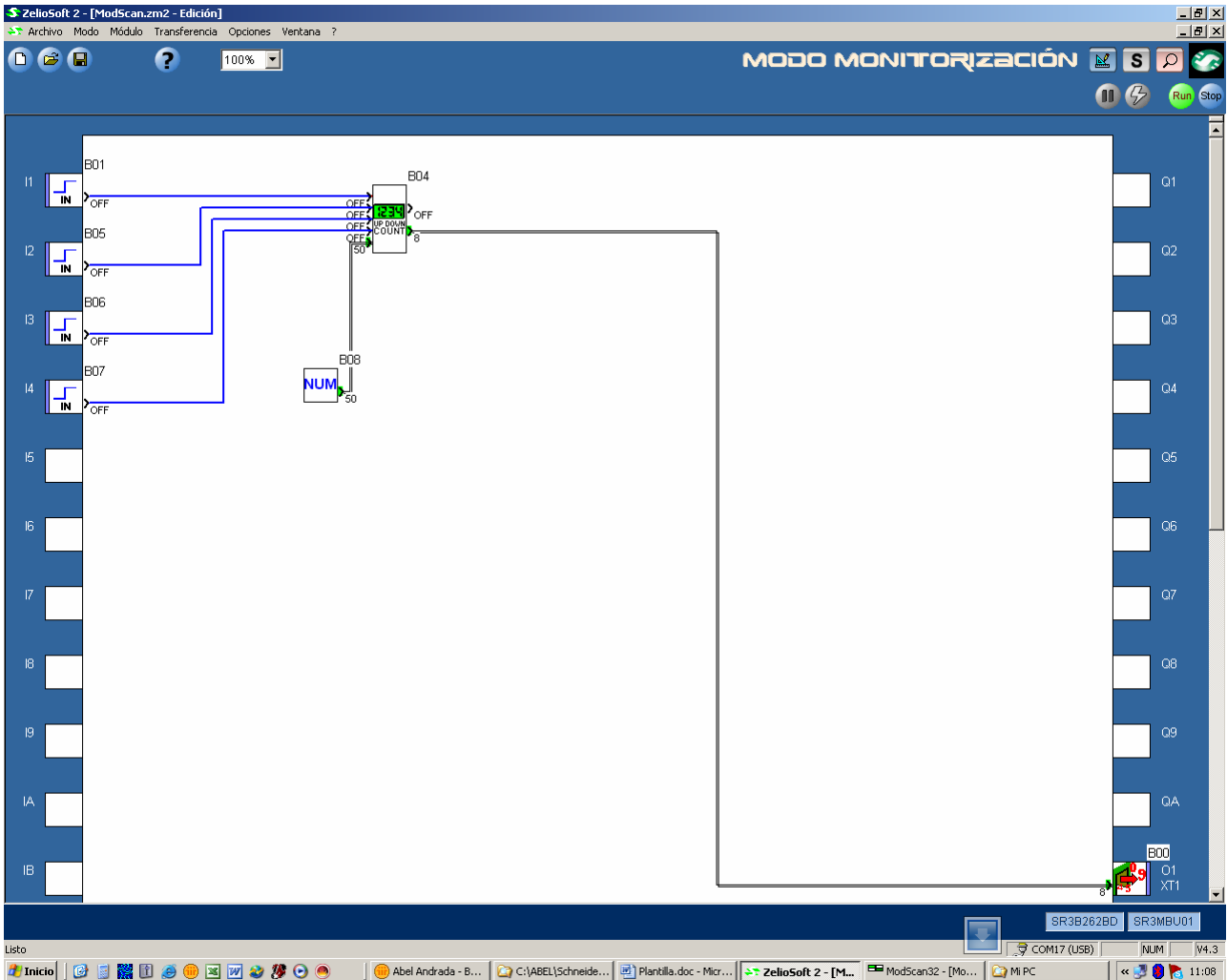
```
40033 : <14596>
40034 : <02821>
40035 : <01823>
40036 : <05128>
```

The taskbar at the bottom shows the Windows Start button, several application icons, and the system tray with the time 11:05 and date 11/05.



Modifiquemos el programa para poder leer vía modbus

The screenshot shows the ZelioSoft 2 software interface in 'MODO EDICIÓN' (Edit Mode). The main workspace displays a ladder logic diagram with several input relays (B01, B05, B06, B07) connected to a logic block (B04) and a numeric constant block (NUM). A dialog box titled 'NUM (Constante numérica)' is open, showing the 'Parámetros' (Parameters) tab. The 'Valor de la constante' (Constant value) is set to 50, with a range of (-32768..32767). The dialog also includes an 'Anular' (Cancel) button and a 'Bloqueo' (Lock) checkbox. The software interface includes a menu bar, a toolbar, and a status bar at the bottom showing the current project name and version.



Veamos los 4 registros de salida



The screenshot shows the ModScan32 software interface. At the top, there is a menu bar with 'File', 'Connection', 'Setup', 'View', 'Window', and 'Help'. Below the menu is a toolbar with various icons. The main configuration area contains the following fields:

- Address: 21
- Device Id: 1
- MODBUS Point Type: 03: HOLDING REGISTER
- Number of Polls: 281
- Valid Slave Responses: 276
- Length: 4
- Reset Ctrs button

The data display area shows the following values:

```
40021 : <00008>  
40022 : <00000>  
40023 : <00000>  
40024 : <00000>
```

The taskbar at the bottom shows the Windows Start button, several open applications, and the system tray with the time 11:08.



Escribiremos en la 18

The screenshot shows the ModScan32 software interface. At the top, there is a menu bar with 'File', 'Connection', 'Setup', 'View', 'Window', and 'Help'. Below the menu bar is a toolbar with various icons. The main configuration area contains the following fields:

- Address: 17
- Device Id: 1
- MODBUS Point Type: 03: HOLDING REGISTER
- Number of Polls: 452
- Valid Slave Responses: 447
- Length: 4
- Reset Ctrs button

The data display area shows the following values:

```
40017 : <00000>  
40018 : <00000>  
40019 : <00000>  
40020 : <00000>
```

The status bar at the bottom right shows 'Polls: 452' and 'Resps: 447'. The Windows taskbar at the bottom shows the 'Inicio' button and several open applications, including 'Abel Andrada - B...', 'C:\ABEL\Schneide...', 'Plantilla.doc - Micr...', 'ZelloSoft 2 - [Mod...', 'ModScan32 - [...', and 'MI PC'. The system clock shows '11:11'.



ModScan32 - [ModSca1]

File Connection Setup View Window Help

Address: 0017 Device Id: 1 Number of Polls: 479
Length: 4 MODBUS Point Type: 03: HOLDING REGISTER Valid Slave Responses: 474
Reset Ctrs

40017: <00000>
40018: <00000>
40019: <00000>
40020: <00000>

Write Register

Node: 1
Address: 18
Value: 1234
Update Cancel

For Help, press F1

Abel Andrada - B... C:\ABEL\Schneide... Plantilla.doc - Micr... ZelloSoft 2 - [Mod... ModScan32 - [L... MI PC

Polls: 472 Resps: 467

11:12



The screenshot shows the ModScan32 software interface. At the top, there is a menu bar with 'File', 'Connection', 'Setup', 'View', 'Window', and 'Help'. Below the menu is a toolbar with various icons. The main configuration area contains the following fields:

- Address: 0017
- Device Id: 1
- MODBUS Point Type: 03: HOLDING REGISTER
- Number of Polls: 496
- Valid Slave Responses: 491
- Length: 4
- Reset Ctrs button

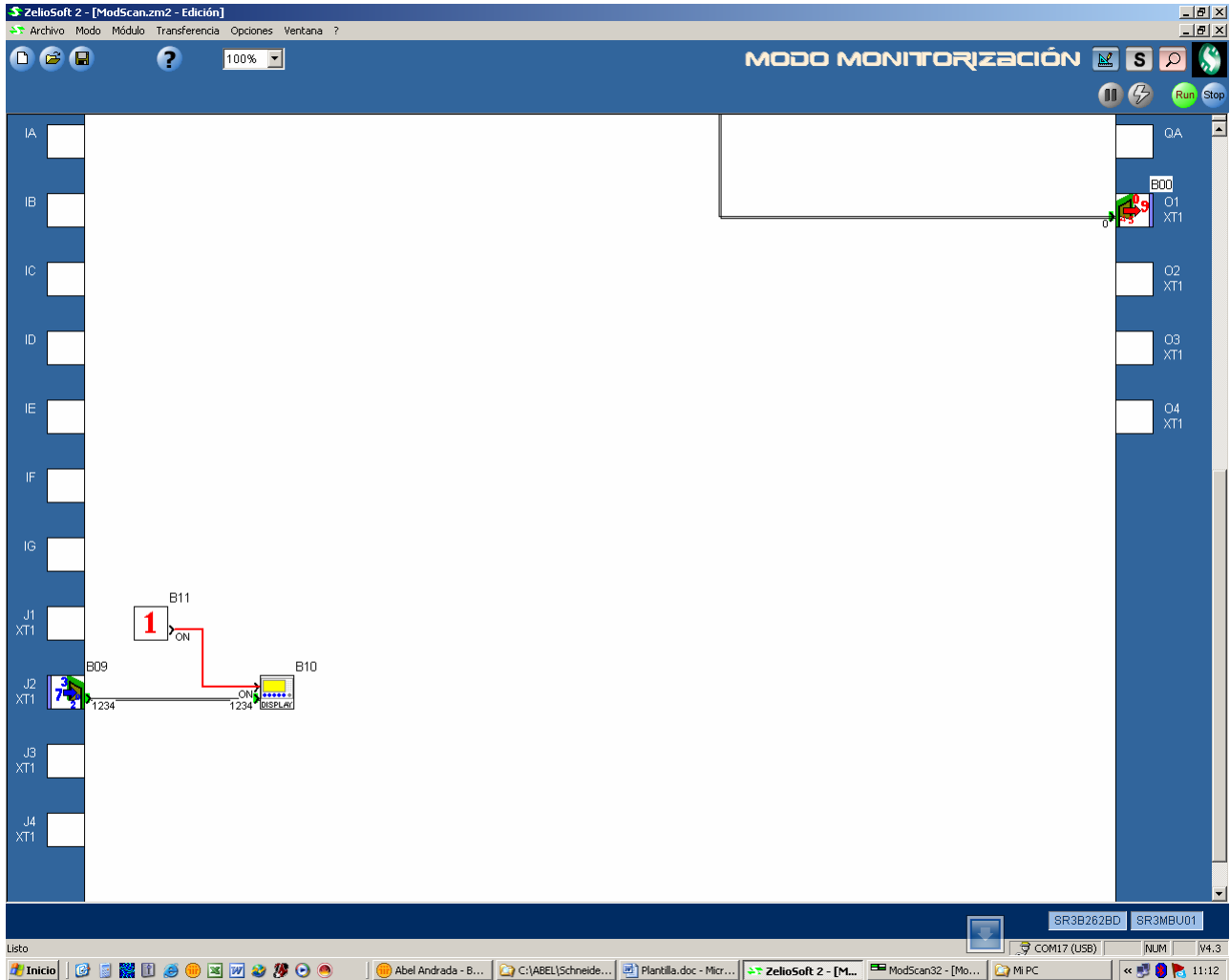
The data display area shows the following values:

```
40017: <00000>  
40018: <01234>  
40019: <00000>  
40020: <00000>
```

The taskbar at the bottom shows the Windows Start button, several application icons, and the system tray with the time 11:12 and date 11/12.



Podrá verse en el display y en ZelioSoft

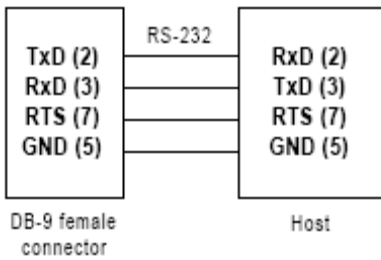




Esquema de conexionado

1.- Entre ADAM y PC

Si no se cuenta con el cable de comunicación utilizar este es el pinout de conexión



2.- Entre ADAM y SR3MBU01BD

ADAM-4520			SR3MBU01BD	
DATA+	1		4	D1
DATA-	2		5	D0
GND	10		8	COMMON

Slave Modbus Zelio 2 RJ45		
	2 fils/2-wire/2 hilos	4 fils/4-wire/2 hilos
1	N.C.	RXD0
2	N.C.	RXD1
3	N.C.	N.C.
4	D1	TXD1
5	D0	TXD0
6	N.C.	N.C.
7	N.C.	N.C.
8	COMMON	COMMON

Nota: Deberán cablearse 3 hilos, los dos de señal RS-485 más el común.

Configuración del ADAM-4520



SW1: 11 bits
 SW2: 19.2 kbps

Alimentación:

24 Vdc (9) (R) + Vs
 0 Vdc (10) (B) GND