

INSTRUTEMP

Manual de Instruções do Software do Analisador de Energia ITAE-3600

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Fiação de Hardware

Cabo da Interface do PC

Lateral do cabo da Interface do PC

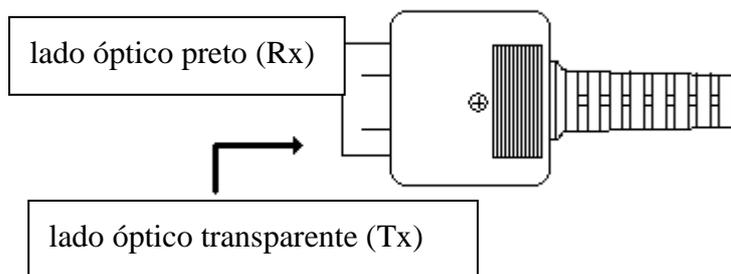
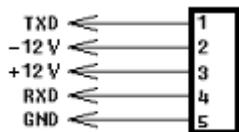


Diagrama USB



REQUERIMENTOS DE HARDWARE E INSTALAÇÃO

Requisitos de hardware do PC:

HDD, CD ROM, PC 486 ou superior, com porta USB disponível

Monitor EGA ou superior

Tamanho da memória 4M bytes ou mais

Instalação do hardware no PC :

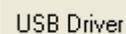
- 1) Desligue toda energia do PC
- 2) Conecte o cabo fornecido à porta USB disponível.
- 3) Ligue o computador
- 4) Ligue a extremidade do cabo de fibra fornecida ao medidor

REQUERIMENTOS DE SOFTWARE E INSTALAÇÃO

- 1) Inicie o sistema operacional Windows XP / 7
- 2) Feche todos os outros aplicativos
- 3) Insira o disco no compartimento de CD ROM



Para instalar o USB ao driver Serial, clique no botão

A rectangular button with a gray border and a light gray background, containing the text "USB Driver".

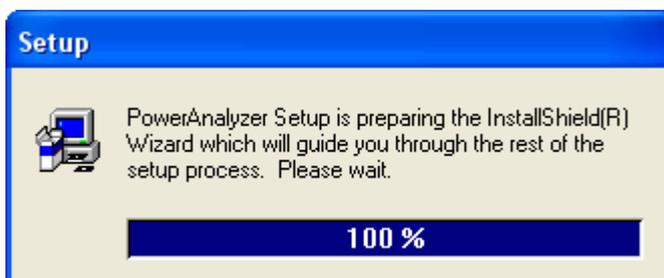
Siga as instruções na tela para configurar o driver USB.

Para instalar o Serial ao driver USB, clique no botão

A rectangular button with a gray border and a light gray background, containing the text "Meter Software".

- 4) Siga as instruções na tela.

1.

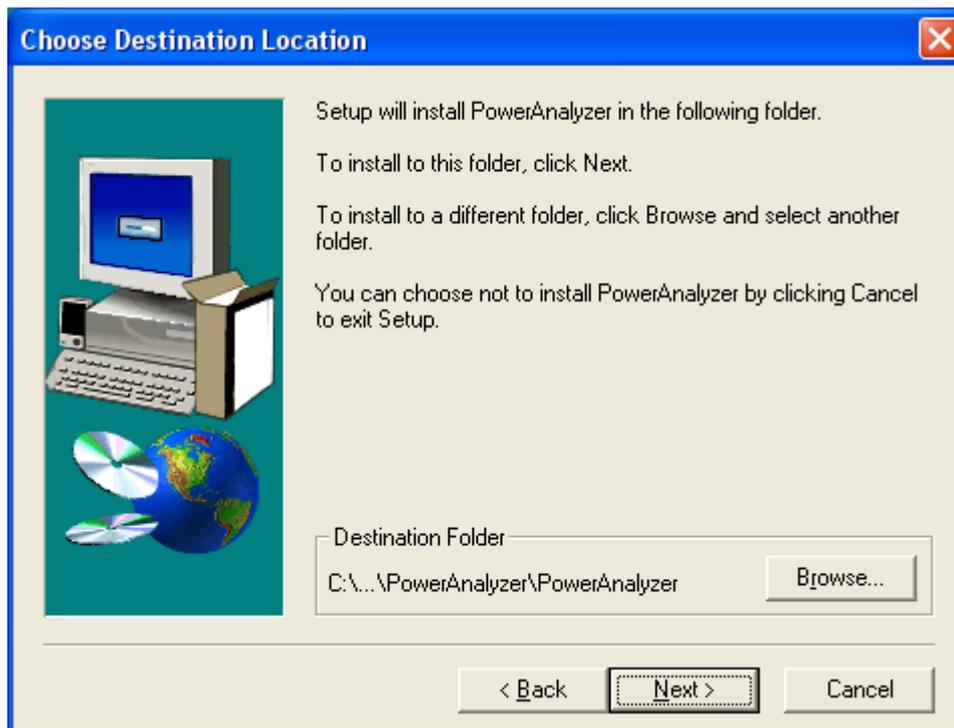


2.



Clique em "Next"

3.



- a) Clique em "Next" para instalar na pasta padrão ou
- b) Clique em "Browse" para instalar em uma pasta diferente

4.



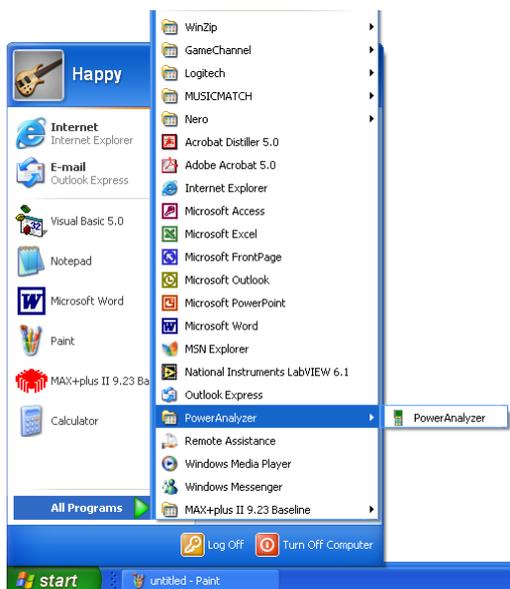
Clique em "Next"

5.

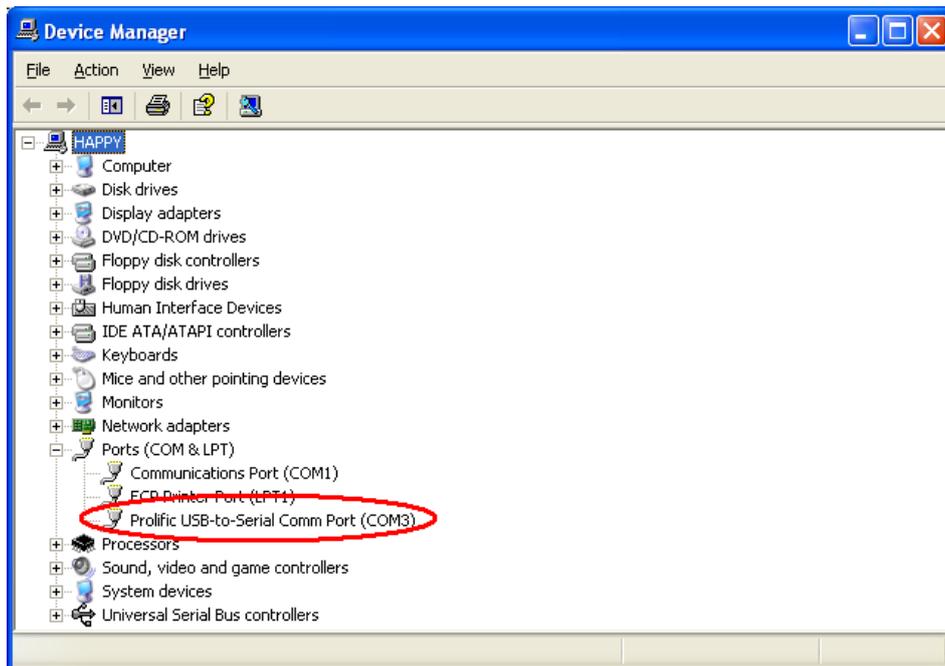


Operação Online

Rodar o software

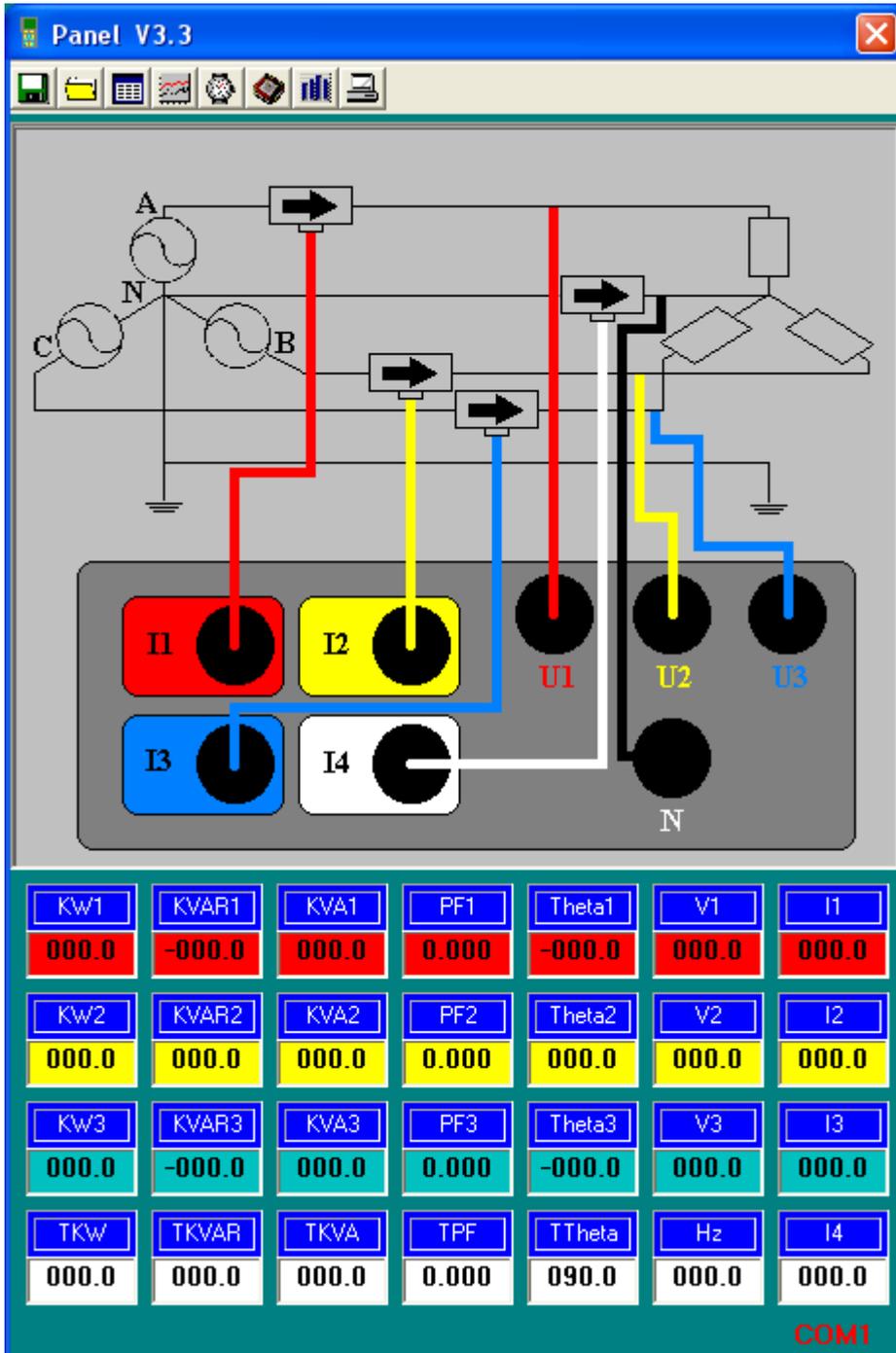


Início → Todos os Programas → PowerAnalyzer (Padrão) → PowerAnalyzer



Selecione uma porta COM disponível e depois clique em 

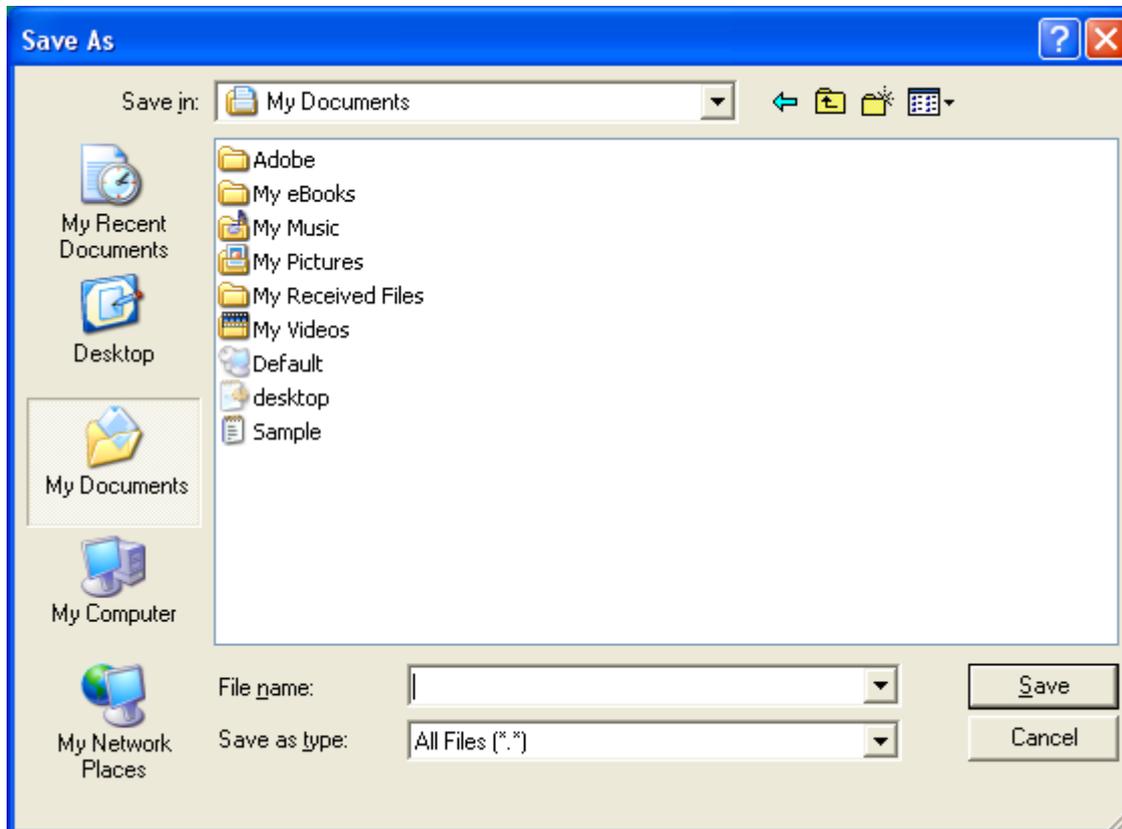
Tela principal do Software

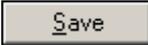


Registro de dados

Salvar em H.D.D.

Clique no botão . A caixa de diálogo abaixo irá aparecer:



Insira o nome do arquivo e clique em  para começar a salvar os dados no arquivo que você acabou de nomear.

Clique em  para parar a gravação.

Salvar em EEPROM

Clique na tecla azul nomeada “START” no medidor para começar.

1. Gravar automaticamente

Continue pressionando a tecla azul nomeada “START” no medidor até que o ícone “M” comece a piscar na tela LCD. Pressione a tecla azul nomeada “STOP” (momentaneamente) para parar a gravação.

2. Gravar manualmente

Pressione a tecla azul nomeada “MEMORY” (momentaneamente) no medidor para armazenar uma leitura. O ícone “M” irá piscar uma vez.

Download de dados

Do H.D.D.

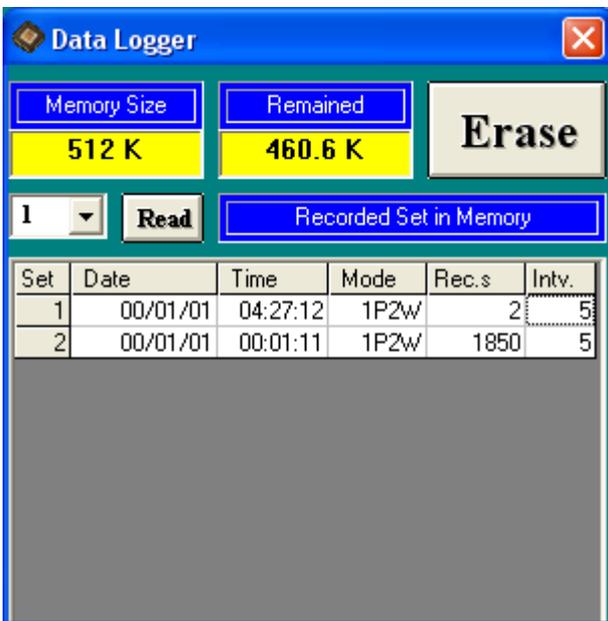
Clique no botão . A janela ABRIR, mostrada logo abaixo, aparecerá .



Insira o arquivo que foi selecionado anteriormente e depois clique em  para abrir.

Do EEPROM

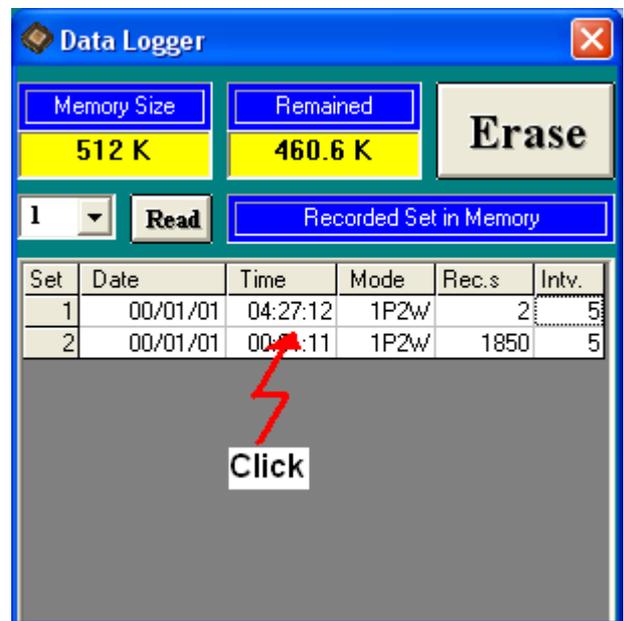
Clique no botão . A janela “Data Logger”, mostrada abaixo, se abrirá.



The screenshot shows the 'Data Logger' window with the following details:

- Memory Size: 512 K
- Remained: 460.6 K
- Buttons: Erase, Read, Recorded Set in Memory
- Dropdown menu: 1
- Table:

Set	Date	Time	Mode	Rec.s	Intv.
1	00/01/01	04:27:12	1P2W	2	5
2	00/01/01	00:01:11	1P2W	1850	5



The screenshot shows the 'Data Logger' window with a red lightning bolt and the text 'Click' pointing to the 'Set' column of the table.

Set	Date	Time	Mode	Rec.s	Intv.
1	00/01/01	04:27:12	1P2W	2	5
2	00/01/01	00:01:11	1P2W	1850	5

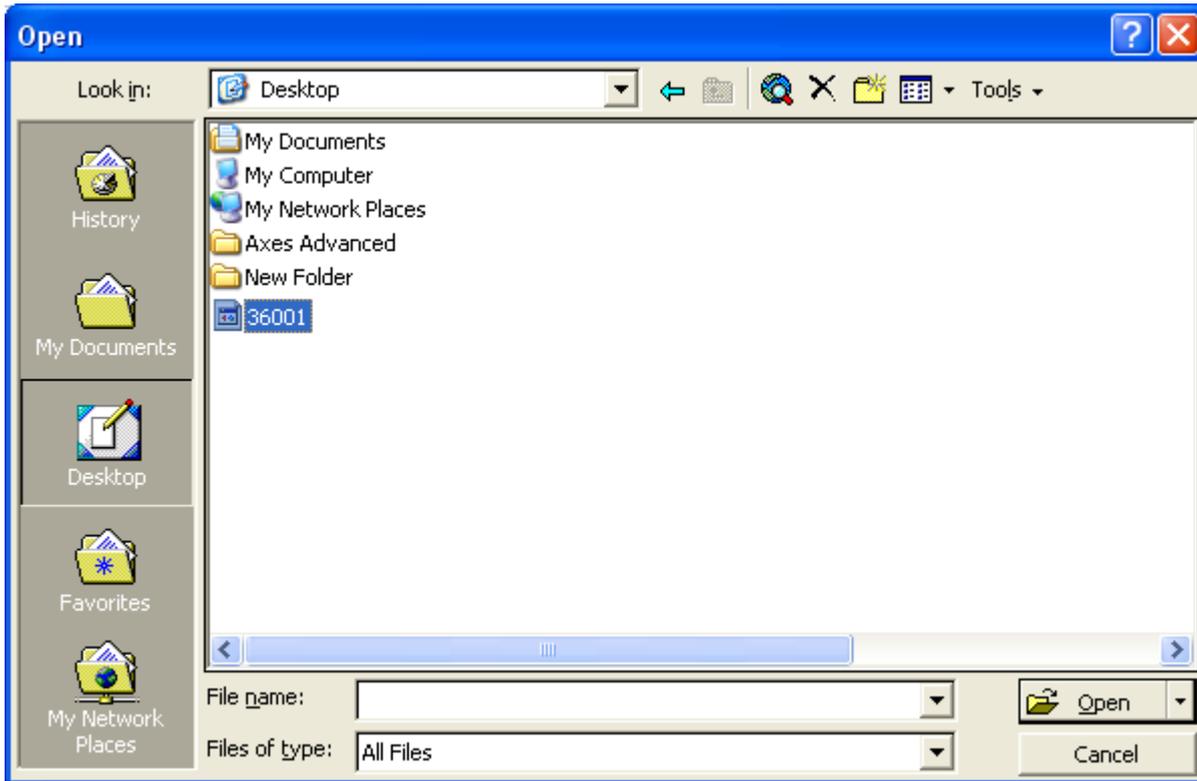
Clique no número SET (posição) que desejar para ver mais detalhes. Por exemplo, na janela acima, há duas posições que você pode escolher. A lista abaixo é um exemplo de uma posição aberta.

Data List												
Details												
No.s	Date	Time	Kw1	KVAR1	KVA1	PF1	Theta1	V1	I1	Kw2	KVAR2	
1	2000/01/01	00:01:11	000.0	000.0	000.0	0.000	000.0	107.8	000.0	000.0	000.0	
2	2000/01/01	00:01:16	000.0	000.0	000.0	0.000	000.0	108.1	000.0	000.0	000.0	
3	2000/01/01	00:01:21	-000.0	000.0	000.0	0.000	000.0	108.1	000.0	000.0	000.0	
4	2000/01/01	00:01:26	000.0	000.0	000.0	0.000	000.0	108.0	000.0	000.0	000.0	
5	2000/01/01	00:01:31	000.0	000.0	000.0	0.000	000.0	108.0	000.0	000.0	000.0	
6	2000/01/01	00:01:36	000.0	000.0	000.0	0.000	000.0	107.9	000.0	000.0	000.0	
7	2000/01/01	00:01:41	000.0	000.0	000.0	0.000	000.0	107.7	000.0	000.0	000.0	
8	2000/01/01	00:01:46	000.0	000.0	000.0	0.000	000.0	107.0	000.0	000.0	000.0	
9	2000/01/01	00:01:51	000.0	000.0	000.0	0.000	000.0	108.3	000.0	000.0	000.0	
10	2000/01/01	00:01:56	000.0	000.0	000.0	0.000	000.0	108.3	000.0	000.0	000.0	
11	2000/01/01	00:02:01	-000.0	000.0	000.0	0.000	000.0	108.2	000.0	000.0	000.0	
12	2000/01/01	00:02:06	000.0	000.0	000.0	0.000	000.0	108.3	000.0	000.0	000.0	
13	2000/01/01	00:02:11	000.0	000.0	000.0	0.000	000.0	108.0	000.0	000.0	000.0	
14	2000/01/01	00:02:16	-000.0	000.0	000.0	0.000	000.0	107.9	000.0	000.0	000.0	
15	2000/01/01	00:02:21	000.0	000.0	000.0	0.000	000.0	107.8	000.0	000.0	000.0	
16	2000/01/01	00:02:26	000.0	000.0	000.0	0.000	000.0	108.2	000.0	000.0	000.0	
17	2000/01/01	00:02:31	000.0	000.0	000.0	0.000	000.0	108.2	000.0	000.0	000.0	
18	2000/01/01	00:02:36	000.0	000.0	000.0	0.000	000.0	107.9	000.0	000.0	000.0	
19	2000/01/01	00:02:41	-000.0	000.0	000.0	0.000	000.0	108.3	000.0	000.0	000.0	
20	2000/01/01	00:02:46	000.0	000.0	000.0	0.000	000.0	108.0	000.0	000.0	000.0	
21	2000/01/01	00:02:51	000.0	000.0	000.0	0.000	000.0	107.8	000.0	000.0	000.0	
22	2000/01/01	00:02:56	-000.0	000.0	000.0	0.000	000.0	107.8	000.0	000.0	000.0	
23	2000/01/01	00:03:01	-000.0	000.0	000.0	0.000	000.0	107.9	000.0	000.0	000.0	
24	2000/01/01	00:03:06	000.0	000.0	000.0	0.000	000.0	107.9	000.0	000.0	000.0	
25	2000/01/01	00:03:11	000.0	000.0	000.0	0.000	000.0	108.0	000.0	000.0	000.0	
26	2000/01/01	00:03:16	000.0	000.0	000.0	0.000	000.0	107.9	000.0	000.0	000.0	
27	2000/01/01	00:03:21	000.0	000.0	000.0	0.000	000.0	107.9	000.0	000.0	000.0	
28	2000/01/01	00:03:26	-000.0	000.0	000.0	0.000	000.0	107.7	000.0	000.0	000.0	
29	2000/01/01	00:03:31	000.0	000.0	000.0	0.000	000.0	107.8	000.0	000.0	000.0	
30	2000/01/01	00:03:36	-000.0	000.0	000.0	0.000	000.0	107.9	000.0	000.0	000.0	
31	2000/01/01	00:03:41	000.0	000.0	000.0	0.000	000.0	107.6	000.0	000.0	000.0	
32	2000/01/01	00:03:46	-000.0	000.0	000.0	0.000	000.0	107.9	000.0	000.0	000.0	
33	2000/01/01	00:03:51	000.0	000.0	000.0	0.000	000.0	108.0	000.0	000.0	000.0	
34	2000/01/01	00:03:56	000.0	000.0	000.0	0.000	000.0	107.7	000.0	000.0	000.0	

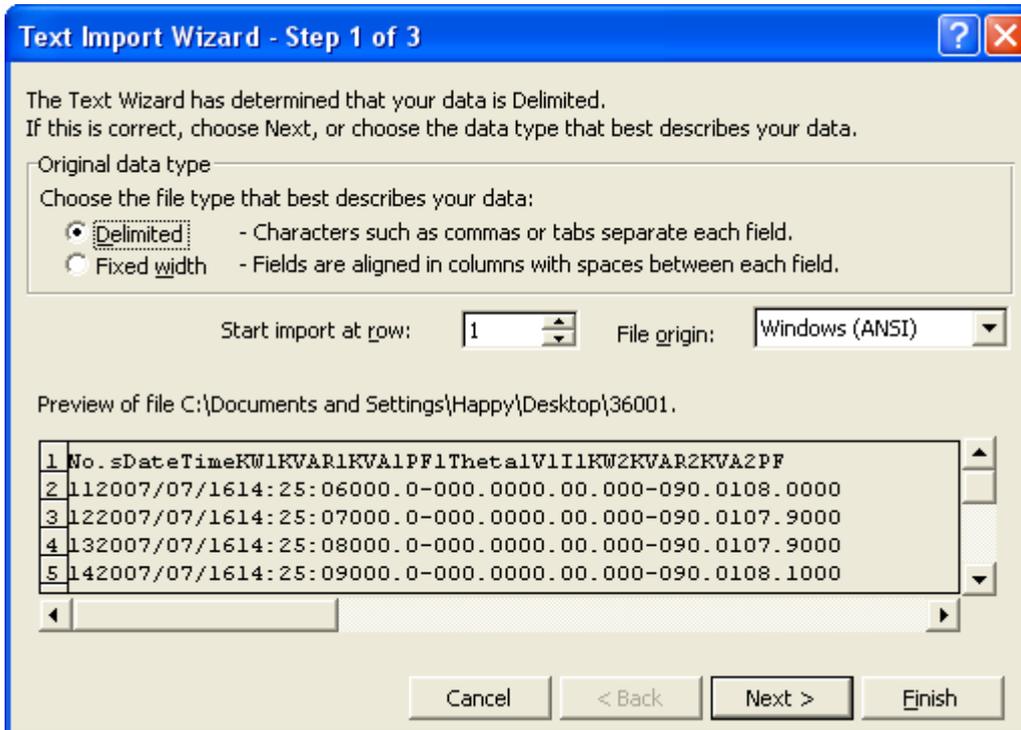
Conversão de dados

Exportar para Excel

Abra o Microsoft Excel, encontre o arquivo salvo, por exemplo, 36001.dat.



O "Text Import Wizard" aparecerá. Siga as instruções na tela.



Clique em 

Text Import Wizard - Step 2 of 3

This screen lets you set the delimiters your data contains. You can see how your text is affected in the preview below.

Delimiters

Tab
 Semicolon
 Comma
 Space
 Other:

Treat consecutive delimiters as one

Text qualifier:

Data preview

No. s	Date	Time	KW1	KVAR1	KVA1	PF1	Thetal	V1	I1
11	2007/07/16	14:25:06	000.0	-000.0	000.0	0.000	-090.0	108.0	000
12	2007/07/16	14:25:07	000.0	-000.0	000.0	0.000	-090.0	107.9	000
13	2007/07/16	14:25:08	000.0	-000.0	000.0	0.000	-090.0	107.9	000
14	2007/07/16	14:25:09	000.0	-000.0	000.0	0.000	-090.0	108.1	000

Clique em

Text Import Wizard - Step 3 of 3

This screen lets you select each column and set the Data Format.

'General' converts numeric values to numbers, date values to dates, and all remaining values to text.

Column data format

General
 Text
 Date:
 Do not import column (skip)

Data preview

No. s	Date	Time	KW1	KVAR1	KVA1	PF1	Thetal	V1	I1
11	2007/07/16	14:25:06	000.0	-000.0	000.0	0.000	-090.0	108.0	000
12	2007/07/16	14:25:07	000.0	-000.0	000.0	0.000	-090.0	107.9	000
13	2007/07/16	14:25:08	000.0	-000.0	000.0	0.000	-090.0	107.9	000
14	2007/07/16	14:25:09	000.0	-000.0	000.0	0.000	-090.0	108.1	000

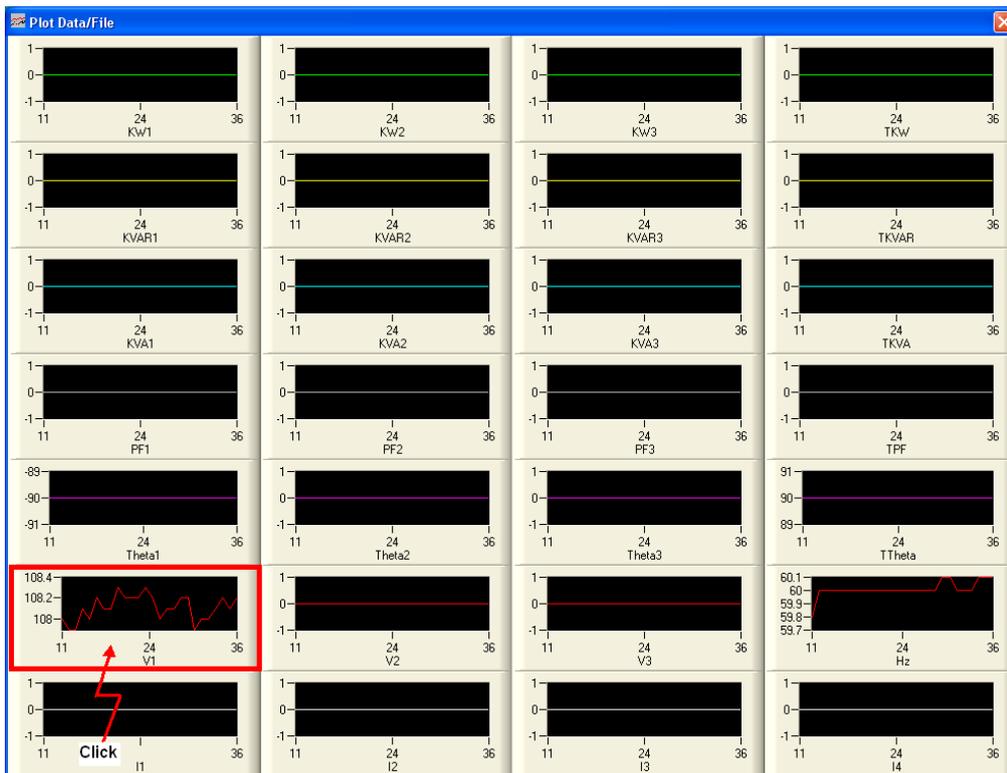
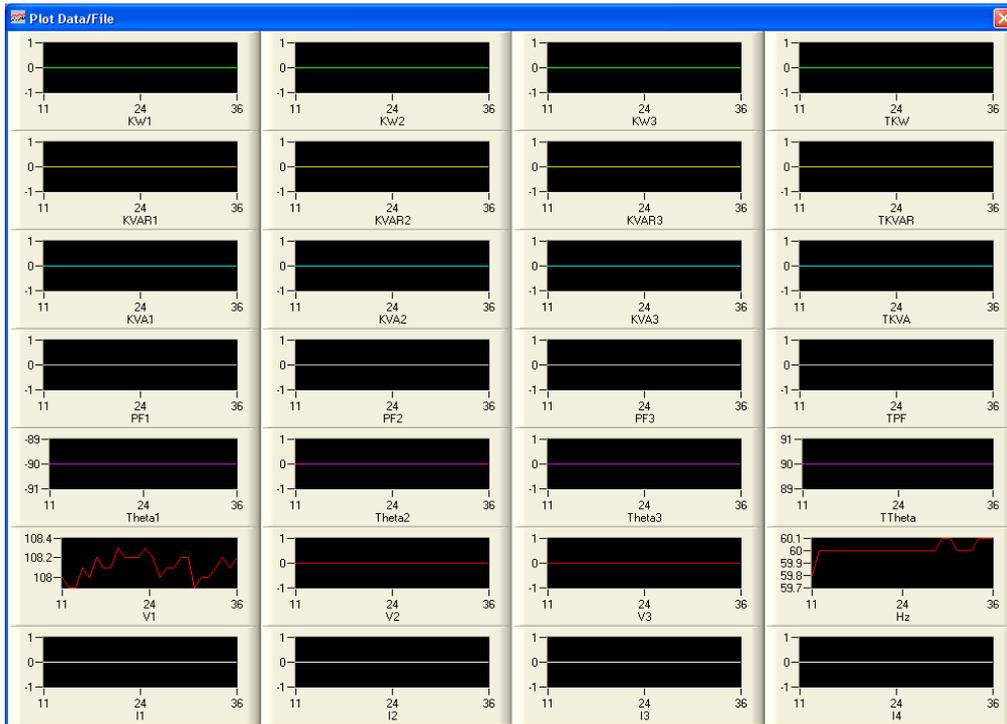
Clique em para completar.

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD	AE	
1	No.s	Date	Time	KW1	KVAR1	KVA1	PF1	Theta1	V1	I1	KW2	KVAR2	KVA2	PF2	Theta2	V2	I2	KW3	KVAR3	KVA3	PF3	Theta3	V3	I3	Hz	I4	TKW	TKVAR	TKVA	TPF	TTheta
2	11	7/16/2007	14:25:06	0	0	0	0	-90	108	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	59.8	0	0	0	0	0	90
3	12	7/16/2007	14:25:07	0	0	0	0	-90	108	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	60	0	0	0	0	0	90
4	13	7/16/2007	14:25:08	0	0	0	0	-90	108	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	60	0	0	0	0	0	90
5	14	7/16/2007	14:25:09	0	0	0	0	-90	108	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	60	0	0	0	0	0	90
6	15	7/16/2007	14:25:10	0	0	0	0	-90	108	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	60	0	0	0	0	0	90
7	16	7/16/2007	14:25:11	0	0	0	0	-90	108	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	60	0	0	0	0	0	90
8	17	7/16/2007	14:25:12	0	0	0	0	-90	108	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	60	0	0	0	0	0	90
9	18	7/16/2007	14:25:13	0	0	0	0	-90	108	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	60	0	0	0	0	0	90
10	19	7/16/2007	14:25:14	0	0	0	0	-90	108	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	60	0	0	0	0	0	90
11	20	7/16/2007	14:25:15	0	0	0	0	-90	108	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	60	0	0	0	0	0	90
12	21	7/16/2007	14:25:16	0	0	0	0	-90	108	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	60	0	0	0	0	0	90

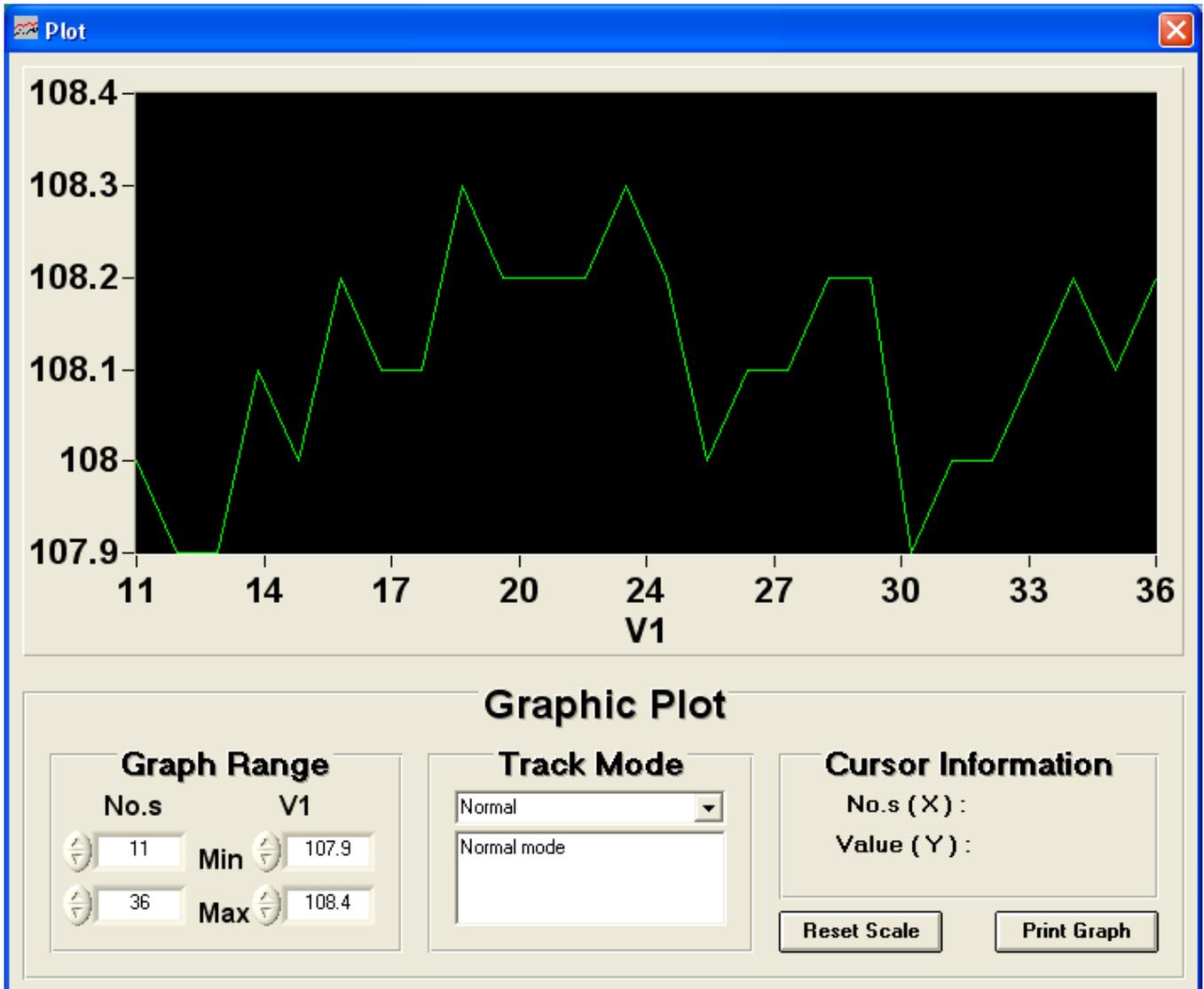
Exportar para Gráfico

Abra um arquivo salvo no programa do software e depois clique em  .

No.s	Date	Time	KW1	KVAR1	KVA1	PF1	Theta1	V1	I1	KW2	KVAR2
1	2000/01/01	00:01:11	000.0	000.0	000.0	0.000	000.0	107.8	000.0	000.0	000.0
2	2000/01/01	00:01:16	000.0	000.0	000.0	0.000	000.0	108.1	000.0	000.0	000.0
3	2000/01/01	00:01:21	-000.0	000.0	000.0	0.000	000.0	108.1	000.0	000.0	000.0
4	2000/01/01	00:01:26	000.0	000.0	000.0	0.000	000.0	108.0	000.0	000.0	000.0
5	2000/01/01	00:01:31	000.0	000.0	000.0	0.000	000.0	108.0	000.0	000.0	000.0
6	2000/01/01	00:01:36	000.0	000.0	000.0	0.000	000.0	107.9	000.0	000.0	000.0
7	2000/01/01	00:01:41	000.0	000.0	000.0	0.000	000.0	107.7	000.0	000.0	000.0
8	2000/01/01	00:01:46	000.0	000.0	000.0	0.000	000.0	107.0	000.0	000.0	000.0
9	2000/01/01	00:01:51	000.0	000.0	000.0	0.000	000.0	108.3	000.0	000.0	000.0
10	2000/01/01	00:01:56	000.0	000.0	000.0	0.000	000.0	108.3	000.0	000.0	000.0
11	2000/01/01	00:02:01	-000.0	000.0	000.0	0.000	000.0	108.2	000.0	000.0	000.0
12	2000/01/01	00:02:06	000.0	000.0	000.0	0.000	000.0	108.3	000.0	000.0	000.0
13	2000/01/01	00:02:11	000.0	000.0	000.0	0.000	000.0	108.0	000.0	000.0	000.0
14	2000/01/01	00:02:16	-000.0	000.0	000.0	0.000	000.0	107.9	000.0	000.0	000.0
15	2000/01/01	00:02:21	000.0	000.0	000.0	0.000	000.0	107.8	000.0	000.0	000.0
16	2000/01/01	00:02:26	000.0	000.0	000.0	0.000	000.0	108.2	000.0	000.0	000.0
17	2000/01/01	00:02:31	000.0	000.0	000.0	0.000	000.0	108.2	000.0	000.0	000.0
18	2000/01/01	00:02:36	000.0	000.0	000.0	0.000	000.0	107.9	000.0	000.0	000.0
19	2000/01/01	00:02:41	-000.0	000.0	000.0	0.000	000.0	108.3	000.0	000.0	000.0
20	2000/01/01	00:02:46	000.0	000.0	000.0	0.000	000.0	108.0	000.0	000.0	000.0
21	2000/01/01	00:02:51	000.0	000.0	000.0	0.000	000.0	107.8	000.0	000.0	000.0
22	2000/01/01	00:02:56	-000.0	000.0	000.0	0.000	000.0	107.8	000.0	000.0	000.0
23	2000/01/01	00:03:01	-000.0	000.0	000.0	0.000	000.0	107.9	000.0	000.0	000.0
24	2000/01/01	00:03:06	000.0	000.0	000.0	0.000	000.0	107.9	000.0	000.0	000.0
25	2000/01/01	00:03:11	000.0	000.0	000.0	0.000	000.0	108.0	000.0	000.0	000.0
26	2000/01/01	00:03:16	000.0	000.0	000.0	0.000	000.0	107.9	000.0	000.0	000.0
27	2000/01/01	00:03:21	000.0	000.0	000.0	0.000	000.0	107.9	000.0	000.0	000.0
28	2000/01/01	00:03:26	-000.0	000.0	000.0	0.000	000.0	107.7	000.0	000.0	000.0
29	2000/01/01	00:03:31	000.0	000.0	000.0	0.000	000.0	107.8	000.0	000.0	000.0
30	2000/01/01	00:03:36	-000.0	000.0	000.0	0.000	000.0	107.9	000.0	000.0	000.0
31	2000/01/01	00:03:41	000.0	000.0	000.0	0.000	000.0	107.6	000.0	000.0	000.0
32	2000/01/01	00:03:46	-000.0	000.0	000.0	0.000	000.0	107.9	000.0	000.0	000.0
33	2000/01/01	00:03:51	000.0	000.0	000.0	0.000	000.0	108.0	000.0	000.0	000.0
34	2000/01/01	00:03:56	000.0	000.0	000.0	0.000	000.0	107.7	000.0	000.0	000.0
35	2000/01/01	00:04:01	000.0	000.0	000.0	0.000	000.0	107.7	000.0	000.0	000.0
36	2000/01/01	00:04:06	-000.0	000.0	000.0	0.000	000.0	107.9	000.0	000.0	000.0



Para mais detalhes, escolha um item e clique para confirmar.

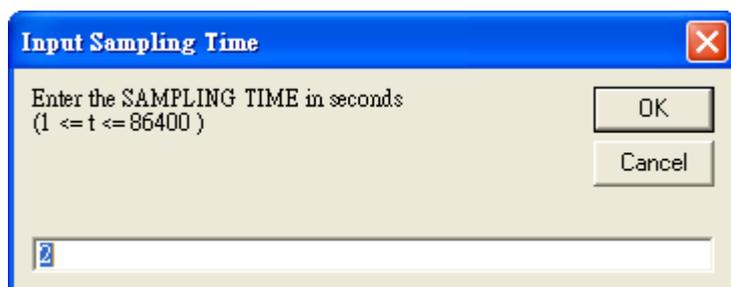


■ Tempo de amostragem

Faixa de amostragem do PC:

(faixa na qual o PC coleta as leituras enquanto está conectado ao medidor)

Clique em  no **Menu Bar**.



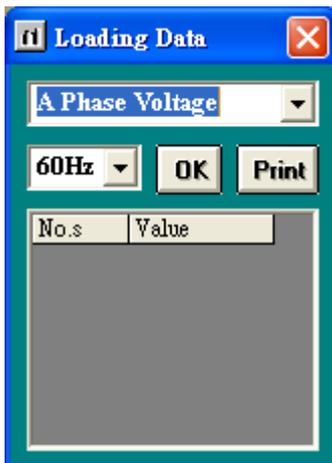
Na caixa de diálogo **Input Sampling Time** , insira um tempo de amostragem e depois clique no botão "OK" para confirmar.

Relógio de tempo real

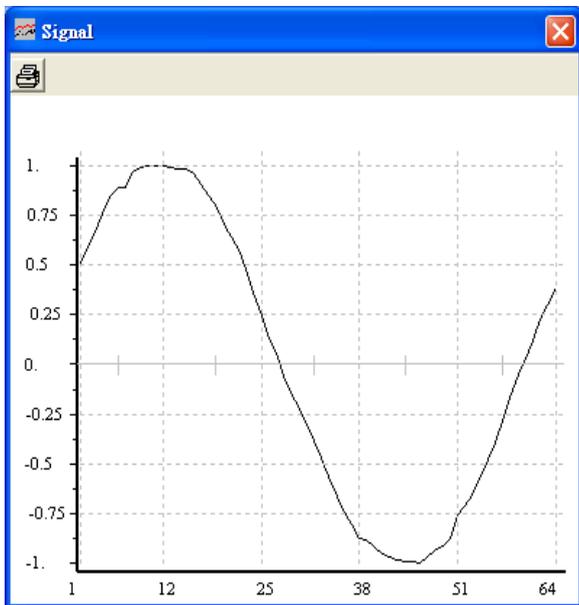
Clique em  para configurar o relógio de tempo real (Tempo do medidor) para o tempo do sistema

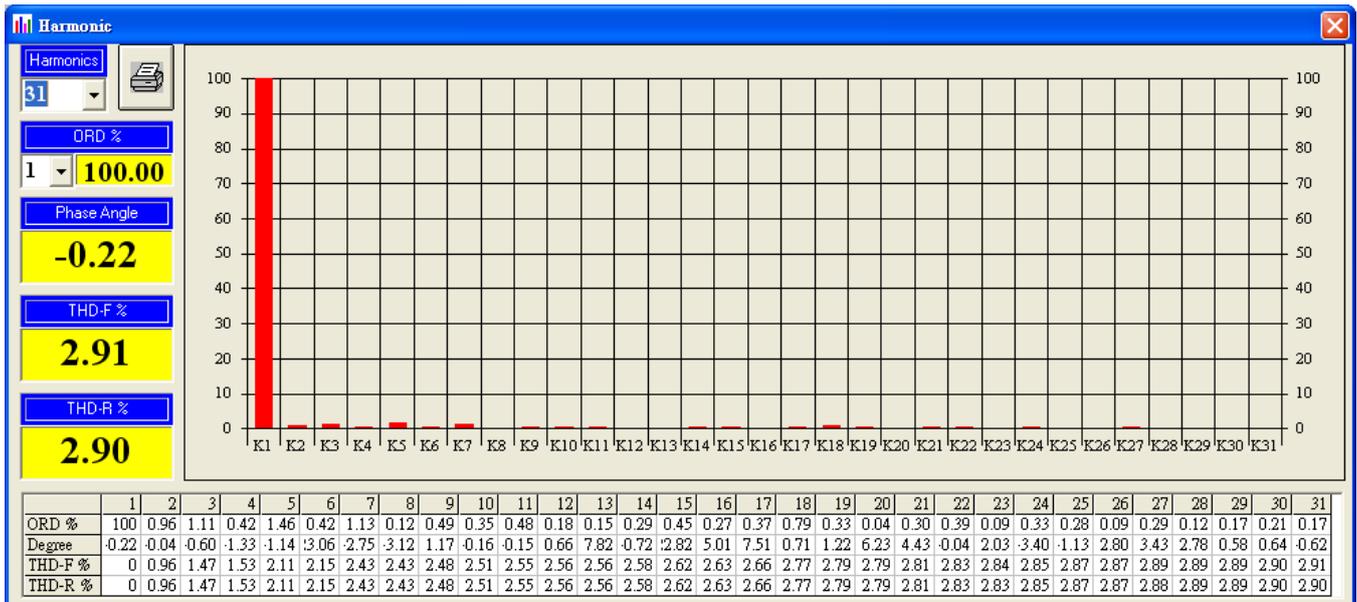
Harmônica

Clique no botão  na barra de menu. A janela “Loading Data”, mostrada abaixo, aparecerá.



Faça as configurações corretas e depois clique no botão “OK”.





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