

VYDAS

INTERNATIONAL MARKETING

Specialist Sensors & Instruments for Industry

DITELCAPTURE

Documenting Software



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INTRODUCTION

DITELCapture Software lets you transfer data from Series Kosmos instruments to PC. This turns the temporary evolution of a process into a graphic with temporary X axis and measure unit in Y axis. It is ideal for following and controlling the process and a posterior study.

GENERAL FEATURES

DITELCapture acquires, represents graphically and stores readings of any Series Kosmos instrument, through serial communication, type of communication RS232 or RS485 and ASCII, ISO 1745 or Modbus protocol.

- Displays acquired results in graphs, with the possibility to represent several measurements on it, and up to four graphics simultaneously on the screen, scaled each one separately, being ideally suited for the results analysis stage.
- **DITELCapture** allows you to get the sampling instant and the sample value graphically using the Cursor Bars.
- To achieve full portability, **DITELCapture** retrieves the results in only reading Excel format, guaranteeing at the same time the inviolability of the results.
- Allows you to view graphically the results previously saved and print them.
- Allows you to fix program setpoints or the instrument setpoints' itself if you have the appropriate option on your instrument.
- Allows you to call configurations programs (Wkos programs), previously installed on your PC



INSTALLATION

This section describes how to install DITELCapture.

Systems Requirements

Operating System: Windows 95 or 98, Windows NT, Windows 2000 or Windows XP.

Minimum Hardware recommended: Microprocessor Pentium class, 32 MB RAM and 70 MB hard disk space.

Graphic card with minimum resolution: 1024x768.

Installing from the CD

1. Insert the CD on your CD-ROM drive.
2. The installation program automatically will appear on your screen, otherwise:
 - a. On the Windows taskbar select Start then Run.
 - b. Type d:\DitelCap.exe (where d: is your CD drive).
3. Follow the installation instructions.

Contacting Ditel

DITEL, S.A.

Travessera de Les Corts, 180

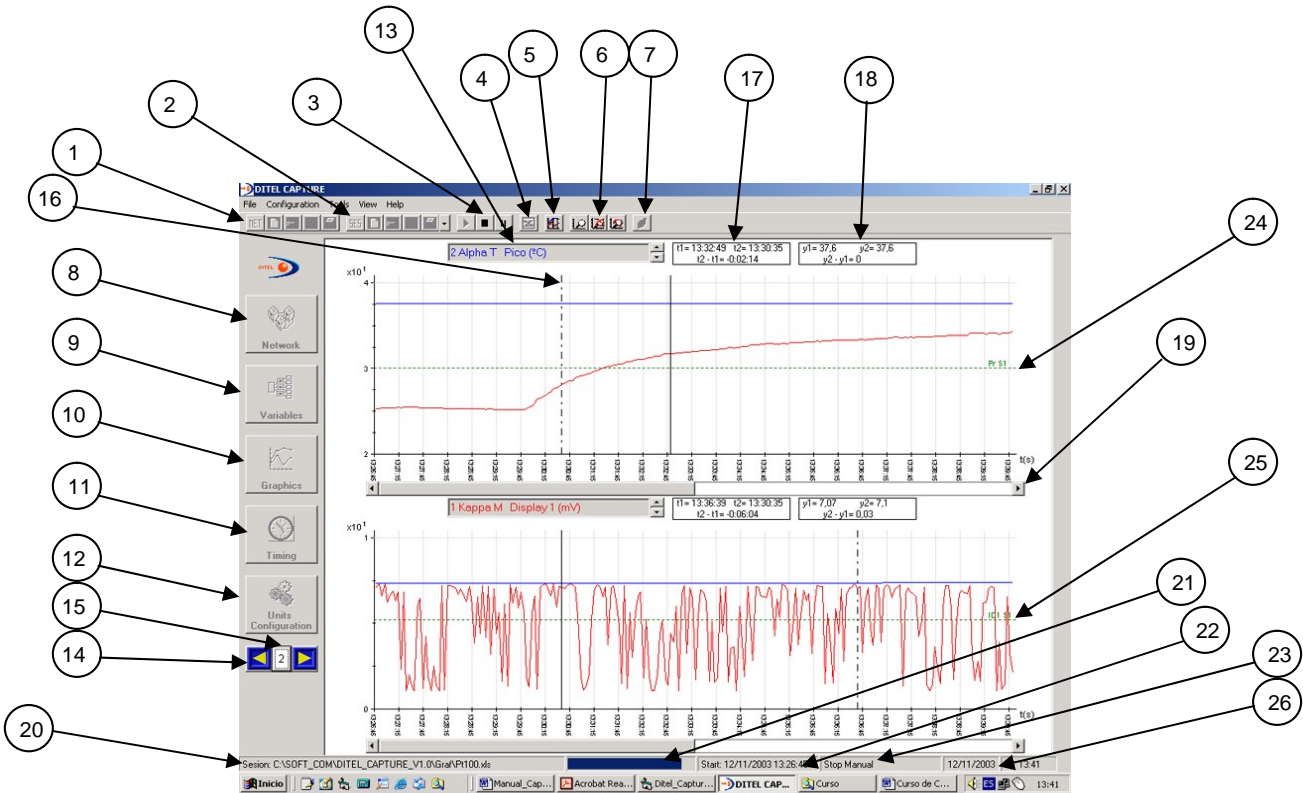
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OVERVIEW DITELCAPTURE



Nº	Description
1	Network Buttons. Perform all the network functions.
2	Session Buttons. Perform all the session functions.
3	Play/ Stop/ Pause Buttons. Starts and Ends session. Pause Button is not in use in the current version.
4	View Excel Document Button. Show the results of the session in Excel Format.
5	Cursor Bars Button. Enables/Disables Cursor Bars.
6	Zoom Buttons. Enables/ Disable/ Undoes Zoom function.
7	Setpoints Button. Shows the Setpoints Form , which allows the setpoint settings.
8	Network Button. Shows the Network Form , which allows the network settings.
9	Variables Button. Shows the Variables Form , which allows variables selection and the measure unit of each instrument.
10	Graphics Button. Shows the Graphics Form , which allows the graphics settings.
11	Timing Button. Shows the Timing Form , which allows the timing settings.
12	Instruments Configuration Button, calls the programs series Wkos that the user have already installed.
13	Graphic Title. Shows the title of each graphic representation, being the currently displayed under Cursor Bars activity.
14	Cursor Direction Buttons. Allows the left/right Cursor Bars displacement.
15	Graphic Cursor Button. Allows the selection of the graphic under Cursor Activity.
16	Cursor Bars.
17	Temporal Cursor Indicator. Displays the temporary position of the Cursor Bars and the interval between each other.
18	Amplitude Cursor Indicator. Displays the value of the sample that match the current bars position and the difference between each other.
19	Scroll Bars. Allows displaying the different register pages.
20	Tasks Indicator. Shows the task that DITELCapture is doing.
21	Transfer Indicator between the instrument and the PC.
22	Start Indicator. Shows the start time.
23	Final Indicator. Shows the final time of the session if it has been previously scheduled, otherwise it will indicate that it has been set as manual.
24	Graphic Setpoint Line
25	Instrument Setpoint Line.
26	Date and Time Indicator.

Guided Tour for DITELCapture

Introduction

This manual will take you for all the intermediate steps to achieve the graphical representation of the transmitted data from the instrument to the PC

Network Configuration

The following steps are enabled by the NET Button.

Network

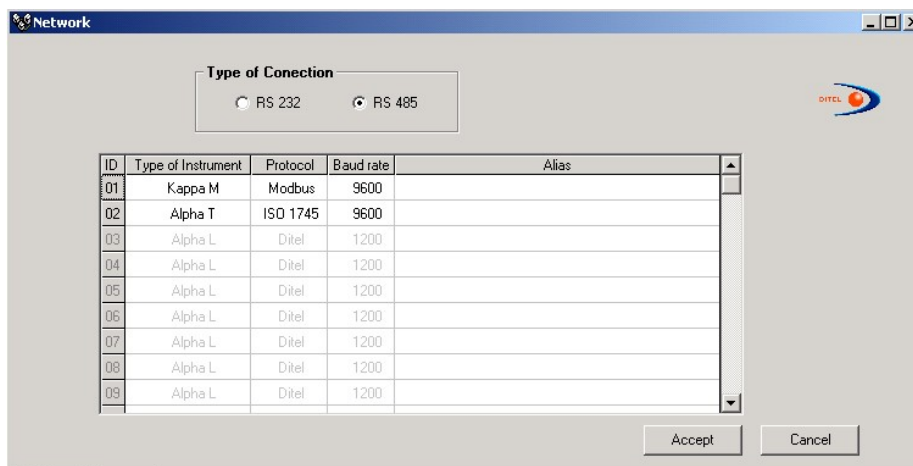
First of all, we need to set the instruments network configuration, that is, we need to select the number of units that forms the network, the ID number, protocol, type of connection and baud rate of each unit, these adjustments have to match the instruments settings. As particularity is pertinent to indicate that a unit selection will be performed clicking on the ID number itself, the same to deselect any unit. To change any other parameter we need to click on the same parameter itself and a drop-down menu will appear with all the possible options.

If you try to make a choice of any Micra instrument with Modbus protocol and 19200 baud rate, you will notice that it is not possible, that is because those instruments don't have this capability and DITELCapture has been designed in order to maintain a total coherence with series Kosmos instruments.

Although all the others Wkos family instruments support the Modbus protocol, we have thought that only in Kappa M and Beta D it provides new functionalities so those instruments are the only ones with have the capability of communicating with DITELCapture by means of this protocol.

We accomplish all these settings in Network Form that we reach through Network Button.

The section *Alias* is optional, it is a instrument label which would tell us, for instance, the process that is measuring, such as Heat Pump or Units Counter.

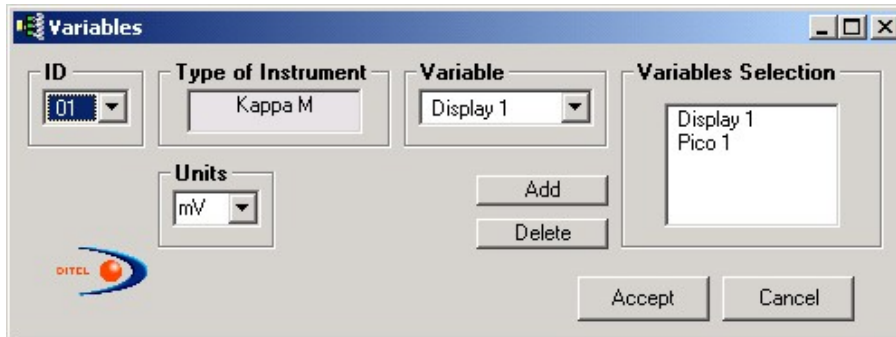


ID	Type of Instrument	Protocol	Baud rate	Alias
01	Kappa M	Modbus	9600	
02	Alpha T	ISO 1745	9600	
03	Alpha L	Ditel	1200	
04	Alpha L	Ditel	1200	
05	Alpha L	Ditel	1200	
06	Alpha L	Ditel	1200	
07	Alpha L	Ditel	1200	
08	Alpha L	Ditel	1200	
09	Alpha L	Ditel	1200	

Variables

Once the network has already been configured, we have to select the variables we want to track. Depending on the instrument and the protocol, we will be able to get access to a specific group of variables. We introduce in this section the measure unit of each process, typing in the drop-down menu following of ENTER or selecting if the unit is already in it. Once we have pressed Accept, we will pass to the Session section. If we wish to retrieve the current configuration, the NET Button will enable that functionality, by

means of that, we will be able to name it and use it for future sessions. The following screen shot shows the Variables Form, we get it pressing Variables Button.

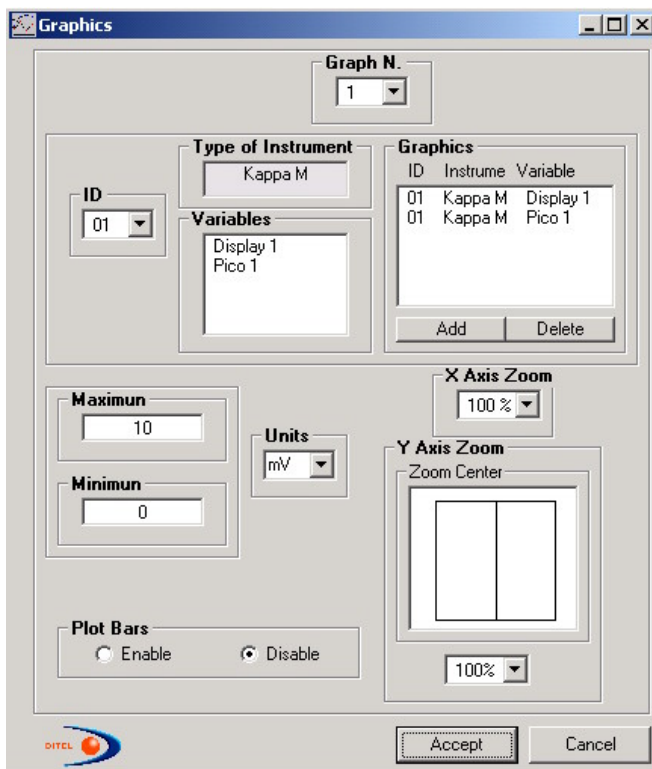


Session Configuration

Session is referred to the results capture of the measurement. That is graphic representation and timing. We get here after passing all the network stages or pressing the Button SES.

Graphics

We select several parameters in this section, all referred to the graphical representation obtained from the temporary evolution. The following is the Graphics Form; we have reached it clicking on the Graphics Button.

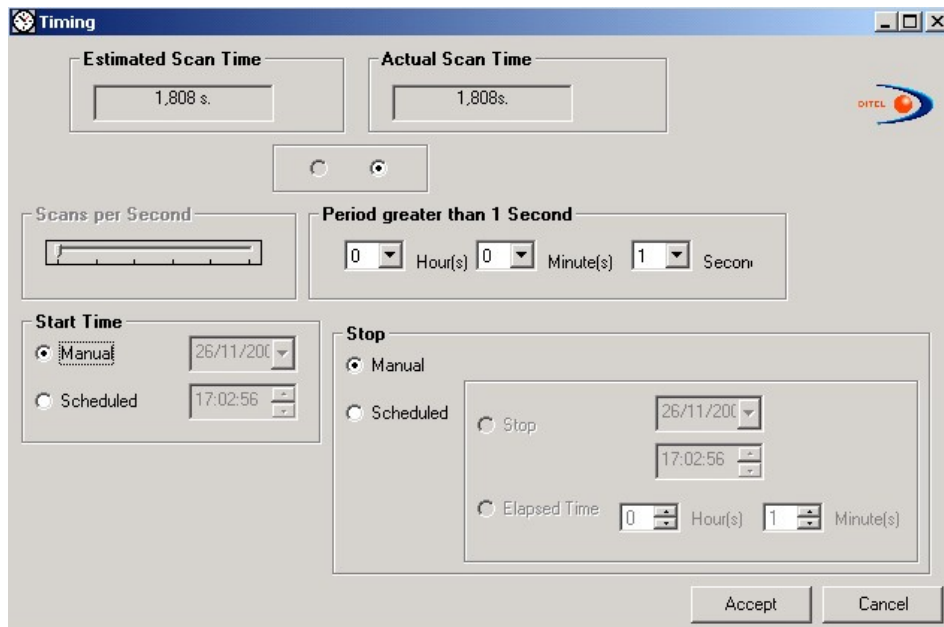


DITELCapture allows up to 4 graphics on the screen, and within each graph, up to 12 graphical representations. It has three different graphical depending on the number of selected graphics. In order to pass from a stage to another, we add variables to the list Graphics of the higher graphic ID. For instance, if we are in graphic mode 1 and we wish to pass to graphic mode 2, we select number 2 from the drop-down menu Graphic N. and afterwards we add the variables we want to track. The same for graphic mode 3 with graphics 3 or 4 or both. We have the option of setting the maximum and the minimum, and zoom, in the X axis can be 50%, 100%, 200%, 300%, 400% y 500%, and from 100% up to 500% in the Y axis. The Y axis zoom center is adjustable, first we choose from the drop-down menu the scale, then click on the box and drag it vertically. In this section we have the possibility of setting the unit measure as well and enable or disable the Cursor Bars. The variable selection is marking with the mouse the one we wish and pressing *Add*, it will be deleted by clicking on it and pressing *Delete*.

Timing

The Timing Form is accessible clicking on the Timing Button.

The program provides a Estimated Scan Time just in case there is not enough time for a Scan Time greater than 1, this will match the Actual Scan Time, if not, the user could fix the Estimated Scan Time dragging the slider bar.



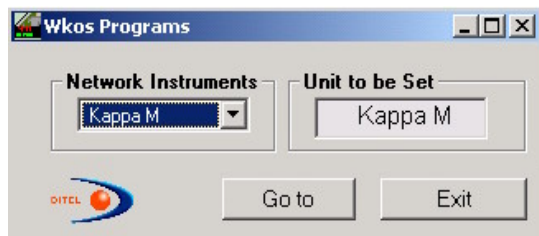
The screenshot shows the 'Timing' dialog box with the following settings:

- Estimated Scan Time:** 1,808 s.
- Actual Scan Time:** 1,808s.
- Scans per Second:** A slider bar.
- Period greater than 1 Second:** 0 Hour(s), 0 Minute(s), 1 Second.
- Start Time:** Manual (26/11/200), Scheduled (17:02:56).
- Stop:** Manual, Scheduled. Under Scheduled, there are options for Stop (26/11/200, 17:02:56) and Elapsed Time (0 Hour(s), 1 Minute(s)).

Buttons: Accept, Cancel.

Instruments Configuration

The Wkos programs series are a set of configuration programs for each series Kosmos instrument, that allows to communicate them through serial communication to the PC and configurate them. These programs have been designed to communicate under Modbus either ISO 1745. If the setting of a given instrument matches the programming protocol and the program is installed on the PC, DITELCapture will find and launch it.



Cursor Bars

The Cursor Bars allow you to move through the graphic evolution of a process and display the instant that a sample occurs, the amplitude and the comparison with other samples of the representation. Both values, time and amplitude will be shown on the Temporal Cursor Indicator and the Amplitude Cursor Indicator. The active graphic to the Amplitude Cursor Indicator is displayed on the Graphic Title, allowing change this clicking on the arrows next to it.

We enable and disable them clicking on the Cursor Bars Button, and the Cursor Graphic Bar will show the bars couple actives. The ways to displace them are:

- Click bar and drag.
- Using the Cursor Direction Buttons.
- Using keyboard. With LEFT AND RIGHT ARROW KEYS we displace them, with UP ARROW KEY the active couple of bars is set, and pressing the SPACE BAR either bar will be displaced.

Zoom

There are two ways of doing a zoom over a graphic:

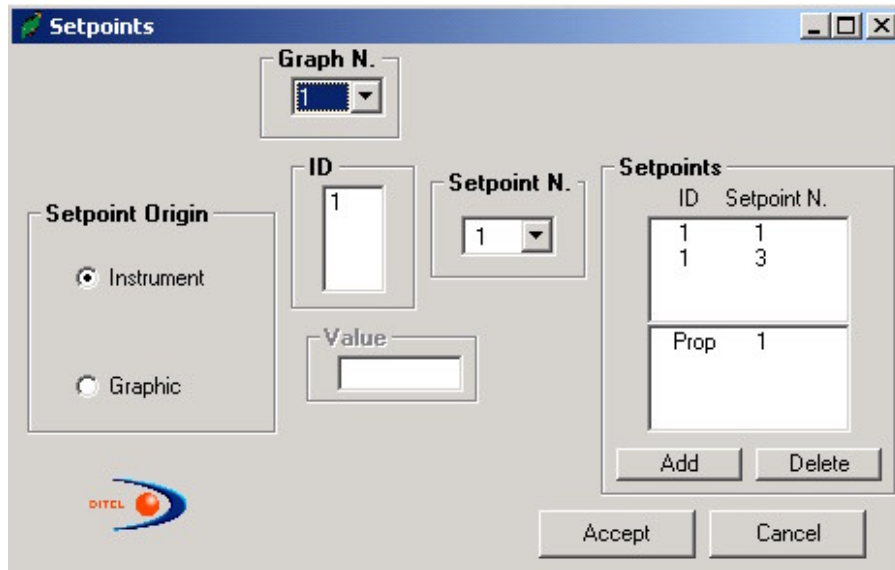
- Graphics Button/ Graphics Form.
- Straight over the graphic:
 1. Enable zoom doing click on the first of the three buttons that form the Zoom Buttons Set(Enable Zoom Button)
 2. Point the mouse and left button click. Depending on the following mouse movement given point will be the start instant or the final instant.
 3. Move and release the left button mouse, the box that appears will be the zoom area.

The second button of the Zoom Buttons Set disables the zoom functionality (Disable Zoom Button) and the third one release the configuration by default 1:1 (Undo Zoom Button).

Setpoints

We have two kinds of setpoints, both of them will be displayed on the graphic that we have configured it for.

1. Instrument Setpoint. Reads the setpoint value from the unit. It is labeled with the string "ID", the unit address, the character "S" and the order number (from 1 up to 4). For more information go to any series Kosmos instrument manual.
2. Graphic Setpoint. It belongs to the graphic itself. It is set from the program. It is labeled with "PrS" and the order number.



Print

In the NET section the program has the capability of printing the network configuration. The SES printing option will provide us the temporary evolution of the system on paper.



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