

The logo for DIANA 5 features the text "DIANA 5" in a bold, yellow, 3D block font. The letters are set against a blue rectangular background that has a subtle radial gradient, with the lightest part in the center. The 3D effect of the letters is emphasized by shadows cast onto the blue background.

DIANA 5

Diagnosis and Analysis System
Quick Start Manual

Introduction

DIANA (**D**iagnosis- and **A**nalysis system) is a PC program for recording and analysing measurement data. The main purpose is for recording analysing measurement data of DIWA.3, DIWA.5 transmissions or the VOITH Retarder. However, there are a number of special extensions available that allow the program to be used in many other applications. The newest generation of DIANA can be used with any of the following Windows formats: 95, 98, ME, NT, 2000 and XP.

Installation of DIANA5

If you already have an older version of DIANA5, you will first have to remove this version, before you can install the new one. In the DIANA5 program group you will find the entry **Remove DIANA5**. Please note, your personal settings, measurements and template files will not be deleted.

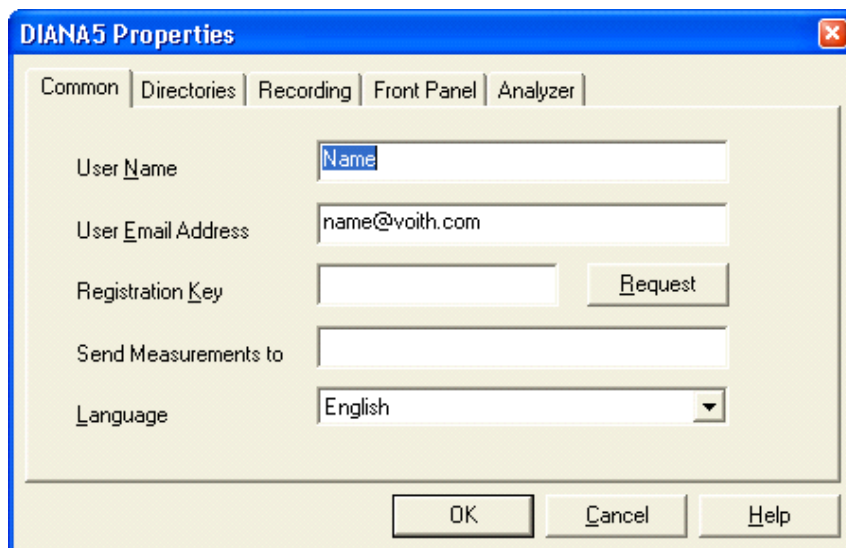
When you have installed DIANA5 Edition, you first have to register the program.

Registration of DIANA5 Edition

Attention

DIANA5 must be installed on Windows NT/2000/XP under Administrator rights.

When you install DIANA5 Edition for the first time on your PC, you have to register the program. This can be done, when you start the DIANA5 Recorder.

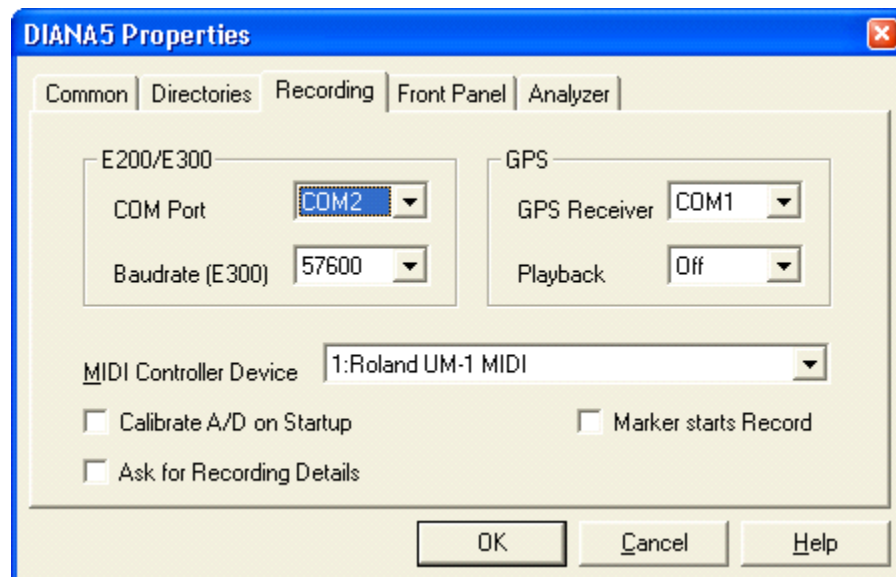


The field **User name** should contain your name or a short name. You **must also enter an Email Address**. If you do not have an own email address, you should use a pseudo email address. If your PC is connected to the internet, you can now click on the **Request** button. This will generate and send an email to Voith

Heidenheim. After a short time you will receive an email, which contains your personal registration key. This key **must be copied to the corresponding input field**. By pressing the **OK** button, the registration is done. Note, that depending on your registration key, some functions of DIANA5 still might be locked i.e. access limited. In special cases, it may take one or two days to get the registration key. If you have no internet connection, you should contact us by mail, telephone or telefax. In this case, we need to know your name and a pseudo email address.

Preparing a measurement

Before you can record a measurement file, you have to connect the serial port (COM) of your computer to the diagnosis connector of the transmission or retarder ECU in the vehicle. Therefore, you should use the VOITH level converter cable(diagnostic cable).



Afterwards, you must open the program properties dialog in the file menu of the DIANA5 Recorder. On this page you only have to select the right **COM port**, to which you have connected the level converter(diagnostic cable).

Recording

Now, you can start with your measurements. Open the Recorder in the DIANA5 program group. Turn on the vehicle ignition and press the **Record button** of the Recorder. DIANA5 will now try to identify the connected electronic control unit (ECU) and load a suitable measurement template. Depending on the template, you will see different virtual instruments on the screen, these will visualize the measurement data. Additionally, the **Status lamp** should switch to green. If not, check the cable and COM port setting of the program properties. Now, the **Record status** is Standby. This means, that the measurement data is only displayed but not recorded. You have to press the **Record button** again. The **Record status** changes to Record and all measurement data is memorised.

If the **Trg button** beside the **Record button** is activated, **Wait Trg** might be displayed instead of **Record**. In this case, data is only memorised, when pre-defined conditions of the measurement data are fulfilled. These conditions can be checked or modified in the **trigger properties dialog** of the DIANA5 Recorder menu and are part of the measurement template. As soon as these conditions are fulfilled, the **Record status** will

change to **Record**. If you switch off the **Trg button**, the trigger settings will be ignored and all measurement data will be memorised continuously.

You can use the Recorder buttons like a tape recorder to stop, pause or continue the recording like you like. With the Recorder you can also mark special events by pressing the space bar of your computer. A small input dialog opens, where you can enter a short description about this event.



By pressing the **ECU Identification** button, you can get information about the connected ECU. In this dialog window you can also enter more information about the vehicle and the measurement itself. This information is also stored in the measurement file.

When you have finished your recording, you have to press the **Save button**, to save the measurement file on your hard-disc. The suggested file name is the serial number of the ECU.

If the function **Ask for Recording Details** (see program properties) is activated, a dialog box is displayed where you should supply additional information about the vehicle and the measurement.

For more information about DIANA5, please read the Reference Manual !