YELLOW ACTIVITY MONITORING SYSTEM

Kinetic Electronic Designs CC

Frequently Asked Questions

1. SOFTWARE INSTALLATION

The YAMS software is available in two different types:

- YAMS-Cloud : This software requires an internet connection and operates on a monthly subscription. Contact KED directly to start making use of this service.
- YAMS off-line : This software operates locally on one or more PCs. These may be on a network, and share a common database location.

1.1. YAMS-Cloud software

1.1.1. What do I do first?

Download and install the latest version of the YAMS-Cloud software from the KED website www.ked.co.za.

1.1.2. I've installed the software. What next?

Ensure that you have an active internet connection and run the software from the icon which has been created on the PC desktop. This may be done on more than one PC.

1.1.3. The software is requesting licensing/registration. What do I do next?

Fill in the licensing information, as requested. This will be automatically sent to KED for their attention.

1.1.4. The licensing request has been sent. What do I do next?

If rapid activation is required, contact KED directly. Use the contact details on the KED website/at the end of this document. Alternatively, KED will make contact with you shortly, using the details entered in the licensing information.

Full activation of the cloud based system and the software installation/s involves completion of a subscription agreement. This covers the number of Activity Recorders being monitored. The agreement should be signed by your company, and returned to KED as soon as possible.

In addition, KED will need to be provided with the serial number of each of the Activity Recorders (displayed on the top left of the case) which are to be monitored

1.1.5. How long does registration take?

Activation of the software installation/s will be effected by KED as soon as the subscription agreement has been completed. The person who has been designated as system manager/contact will be automatically informed of this via SMS and email.

1.1.6. The software has been activated. What do I do next?

A system manager should be nominated. This person will be responsible for the setup and maintenance of the system for the organisation.

This involves such aspects as organisation preferences, users, vehicle types, fleets, vehicles, locations, shifts and other vehicle parameters. KED will readily provide assistance with these operations, as required.

1.2. YAMS off-line software

1.2.1. I have the software on CD. What do I do first?

Unpack and install the software onto a PC.

1. Insert the disc in the CD-ROM drive
2. The Setup program should start automatically within a few seconds. If it does, skip to step 5.
3. If the setup program does not start, use Windows Explorer to browse the CD-ROM.
4. Double-click on the **cdinst** application.
5. Click on the **Install Yellow Activity Monitoring System** button to install the software.

1.2.2. I do not have the software. What do I do first?

Download and install the latest version of the YAMS (Off-line) software from the KED website www.ked.co.za.

1.2.3. I've installed the software. What next?

Run the software from the icon which has been created on the PC desktop. The software may be installed on more than one PC.

To maintain data integrity, it is advisable to nominate a particular PC as the one where collected data will be downloaded (see below)

1.2.4. The software is requesting licensing/registration. What do I do next?

The software must be licensed i.e. registered with KED before full functionality is permitted.

Another benefit of licensing the software is that it ensures that KED has had contact with system users. KED can then provide better support and service to users.

For the cloud system, the licensing process involves completing a monthly contract with KED for the Activity Recorders being monitored. Please contact us in this regard.

For the off-line system, licensing is a three step process:

1. Type in the company name and the software will create a code number
2. E-mail or phone the code to KED.
3. KED will return a licence number.
4. Enter the licence number into the software.

1.2.5. How do I get more information on the software and system?

The software makes use of a built-in User manual. Use it. Often. Pressing the F1 key from anywhere in the software will present detailed assistance related to the screen or operation that is being displayed. The built-in Help also provides details about the hardware, installation and usage.

1.2.6. Most of the buttons and menus are “greyed” out, and do not work

The first thing that needs to be done after running the software is to set a database location. This is the folder on the hard drive where all plant (vehicle) and activity data will be stored. This is done via the File | New Database menu. It is advisable to specify a folder that will contain only the Yellow activity data. Do not specify a folder that already contains files from some other source.

Once a database location has been specified, appropriate button and menus will become available.

1.2.7. Most of the buttons and menus are STILL “greyed” out?

The last compulsory setup operation is to add plant (vehicles) to the list that is to be monitored.

This is done using the “New” speed-button in the top button bar (or via the File | Vehicle | New menu item).

The minimum amount of information that should be filled in is a company-wide unique Registration Number. After adding new plant, the opportunity is given to program the registration number into the Activity Recorder that will be mounted in the plant. (This operation may also be carried out later using the Data Gatherer | Set Registration menu item.)

2. ACTIVITY RECORDERS

There are currently two main families of Activity Recorders

- The VR272-family : These recorders use a Data Gatherer to collect information and bring it to the PC. They work with both YAMS-Cloud and the off-line software.
- The VR903-family : These recorders work with YAMS-Cloud only. A Tally Stick is used for manual data collection. Alternatively, automatic downloads are available to get data into the cloud.

2.1. How do I know that the Activity Recorder is working correctly?

Both VR272 and VR903 Activity Recorders flash only ONE of their two indicator lights every 6 seconds (approximately) when working correctly. This indicates that it is either recently or currently “busy”, or that it is in a “standby” state (waiting for activity).

2.2. The Activity Recorder does not appear to be working correctly. What do I do?

Examine the indicators, and note how they are flashing.

2.2.1. They both flash every 6 or so seconds

Both indicators flashing together shows that the Activity Recorder does not know the time and date.

For VR272 Activity Recorders, these are set automatically each time that the Data Gatherer, which carries the current time and date from the PC, does a download from the Activity Recorder. If both indicators are flashing, doing a Data Gatherer download will solve the problem. If this does not solve the problem, refer to question 4.1

For VR903 Activity Recorders, the data and time is derived from GPS satellites. A clear view of the sky is needed.

2.2.2. The red “busy“ indicator flashes, but the green “standby” indicator will not flash, even when the unit experiences activity.

The VR272 Activity Recorders will not recognise or record vibrations immediately following a download to the Data Gatherer. They wait until the start of a new minute, and will only then begin recording (and showing activity by flashing the green “busy” indicator).

The vibrations may be too weak in intensity or too high in frequency. The recorder has a threshold level of intensity (moderately high, as would be experienced when the plant is working) and frequency (low, as would be experienced by stop-start bumping and knocking. The recorder will not, in general, detect an idling engine.

3. DATA GATHERERS

3.1. How do I know that the Data Gatherer is working correctly?

All three indicators flash briefly when the download from an Activity Recorder is started. A brief beep may also be heard.

The green “busy” indicator stays on for the entire time that the Data Gatherer is operating. During the download from the Activity Recorder, a buzz will be heard. The indicators on the Activity Recorder do not flash while the Data Gatherer is doing a download, or while it is held in the socket.

The download operation normally takes about 15 seconds to complete.

At the end of the download, there will be a beep, and the “busy” indicator will turn off.

4. DOWNLOADS

4.1. The download from Activity Recorder to Data Gatherer does not appear to be working correctly. What do I do?

4.1.1. The Data Gatherer’s indicator/s do not turn on when it is pushed into the Activity Recorder socket.

The contacts on the Activity Recorder or Data Gatherer may be dirty or damaged. Cleaning the contacts can be done by

- Simply wiping the faces of the Activity Recorder contacts with dry fingers
- Wiping the Activity Recorder contacts with a cloth and mild detergent. (Dry the contact area immediately afterwards.)
- Wiping the Activity Recorder contacts with a non-abrasive pencil eraser

NEVER USE ABRASIVE CLEANERS OR SOLVENTS TO CLEAN THE CONTACTS.

In general, it should never be necessary to clean the Data Gatherer spring-loaded contacts.

The Data Gatherer’s battery may be too low (flat) to operate it. Change the battery.

4.1.2. The Data Gatherer’s green “busy” light is on, but there is no buzzing

Withdraw the Data Gatherer, wait for green light to go off, wait a further 5 seconds and try again. All indicators on the Data Gatherer should be off for at least 5 seconds between download attempts.

4.1.3. The buzzing sound is intermittent

The Data Gatherer is not being held firmly in place. The Data Gatherer should be inserted into the Activity Recorder socket and held firmly in place for the entire duration of the download.

The contacts on the Activity Recorder or Data Gatherer may be dirty or damaged. See 4.1.1 above.

4.1.4. The red "fault" indicator comes on, and the Data Gatherer emits a set of 4 descending tones

The Data Gatherer is not being held firmly in place. See 4.1.3 above.

The contacts on the Activity Recorder or Data Gatherer may be dirty or damaged. See 4.1.1 above.

4.1.5. The red "fault" indicator comes on, and the Data Gatherer emits a set of 2 descending tones

The Data Gatherer's memory is full. Connect it to the PC and download the data.

4.1.6. The yellow "battery low" indicator comes on

This shows that the battery in the Data Gatherer is getting too low for continued operation. Download data to the PC, and then change the Data Gatherer battery as soon as possible.

4.2. How do I know what happened when I download data from the Data Gatherer/Tally Stick to the PC?

The software will display a window showing error messages or warnings, if there are any, following a download. Take note of these messages.

Data will only be assigned to vehicles that are listed on the PC, up to the date and time that the last download was made from that vehicle's Activity Recorder to the Data Gatherer/Tally Stick. Check that the correct date is being requested. Use the "Last Day" buttons that are on the graphical and numerical reports to find this.

4.3. Connecting the Data Gatherer to the PC via USB gives a "Device unrecognised" Windows message

This may occur with certain Windows installation. Use an unfolded paper-clip and press it into the hole on the back of the Data Gatherer to reset the device. The connection should then proceed correctly.

5. ACTIVITY RECORDER INSTALLATION

5.1. What is the best way to mount an Activity Monitor?

The Activity Recorder may be mounted using either

- three 120mm long strips (25mm width) double-sided foam adhesive tape. Alcolin, 3M and Sellotape are some suppliers of such a product, often used for attaching mirrors to walls. Ensure that the mounting surface is clean and smooth before attaching.
- four self-tapping screws. This method is more permanent and requires drilling holes into the vehicle bodywork. Suitable self-tapping screws are provided with the

recorder. The screws are inserted through holes in the Activity Recorder enclosure, which are accessed by removing the front panel of the recorder.

Please note: The recorder should be firmly mounted to a vibrating surface. Loose mounting, or simply placing a recorder on a vibrating surface, does not always result in good recording of the work activity that the vehicle is experiencing.

NB : Ensure that there is no obstruction that might prevent the Data Gatherer from being inserted into the Activity Recorder for data collection.

5.2. Where, on a vehicle, is the best position to mount the Activity Recorder?

The choice of mounting position is most important for satisfactory operation of the recorder. Various surfaces of a vehicle may experience different vibration intensities and frequencies during work. The intensity of recorded vibrations will thus vary depending on where in the vehicle the recorder is mounted.

A mounting location may be tested for suitability by temporarily mounting a recorder in place using some short strips of double-sided tape (described in 5.1 above). Once the position has been ascertained as being suitable, the recorder may be mounted using (1) drilled holes and the provided self-tapping screws (2) double-sided tape or (3) Bostik CAR black silicon sealant

5.3. Which way should the Activity Recorder face when it is mounted?

The Activity Recorder's vibration sensor is sensitive in all three axis. To maintain consistency in readings between different installations, it is recommended that the recorder be mounted parallel to one of the major axis, as shown in the pictures above.

To reduce the build-up of dust or contaminants on the Data Gatherer connections, it is recommended that the recorder be installed with the connections facing downwards.

5.4. How should the engine monitor/hour meter input be connected?

VR903 Activity Recorders require an engine monitor/hour meter connection. This connection is optional for VR272 Activity Recorders.

The connection should be made to a point that provides 12volts when the engine is running. Typically there are two common connection points available: (1) supply to an existing engine hour meter or (2) connection to the alternator Charge Light terminal (typically marked on the alternator as "D+" or "L"). Refer to the particular alternator documentation for correct terminal identification.

Note that direct connection to the ignition switch circuit will likely provide the voltage when the electrical circuits are active, but that this does not necessarily indicate that the engine is also running.

6. I'm still stuck. What do I do now?

Contact the KED Support Line on +27 21 532 2351 or support@ked.co.za