

UserManual

Data Collector

Ver.: 4.3

Data Collector

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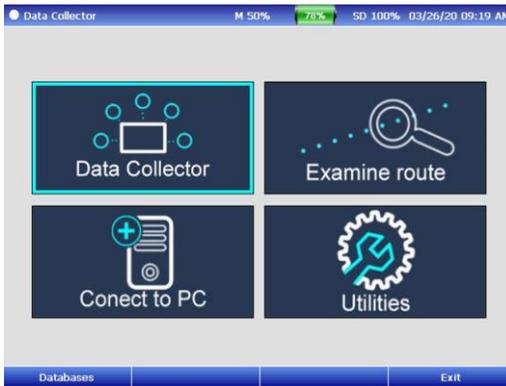
Operate:

Firmware data collector is used for measuring equipment, points, and measurements, which are grouped in a tree like path.

To access the program, you must select shortcut icon from main screen or boot the DSP Logger Expert.



Once in the program, screen displays all options related to data collector.



By activating this option, collector will charge the existing database into the memory of the DSP Logger Expert.

Database Selection:

If different route from different databases is loaded, so upon entering to the modal of data collector, system will be asked to select the database which it will be started for work.



With ENTER key it opens the display list showing the different databases available, then it can be selected the correct one with navigation key, confirmed with ENTER key, and then activated F1 to save selection.

The structure of this database is composed of the following main fields, which the operator can navigate.

Plants
Sub plants
Routes
Equipment
Points
Measurements

Once entering to the screen where shows the first level, you can navigate up the levels with ENTER key.



You can navigate down the levels with ESCAPE key.



Plant Selection:



Sub plant Selection:



Routes Selection:



A measurement route is the grouping of multiple equipment on a sub plant, sorted according to collection.

On this screen, you can alphabetically order the routes with the F2 key.



You can also filter routes by their condition with the F3 key.



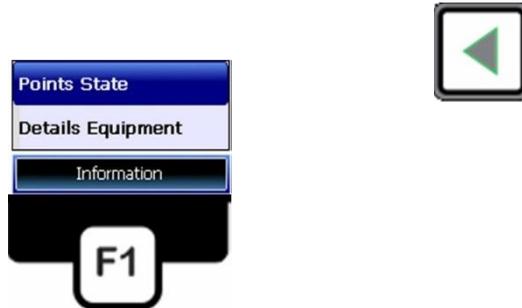
Measurement Options:

Automatic measurement options are activated from Route screen. There are two types of routines that can be selected before starting.

Measurements are made as automatic recordings, which can be confirmed and advanced with the UP key.



Confirmations of change points are made and accepted with ENTER key.



These options are available via function key F1.

Fast measurement:

All measurements configured by the measuring point without interacting with the operator, such as Spectrum of ACCELERATION, VELOCITY, and ENVELOPE, are recorded in the memory without displaying any graphics if the values of these measurements are normal.

If so, you will see a window in a flash with the measurement condition.

If any of the measurements is in CAUTION or EMERGENCY state, equipment will show the spectrum, so the analyst could verify it.

To confirm the measurement and record it, press UP key from the keyboard.

If you want to repeat the measurement, simply press the ENTER key and the measurement will start again as many times as you wish.

This operation is repeated at each point of a machine, indicating from point to point, notice of the next point, or a change of the position sensor.



Detailed Measurement:

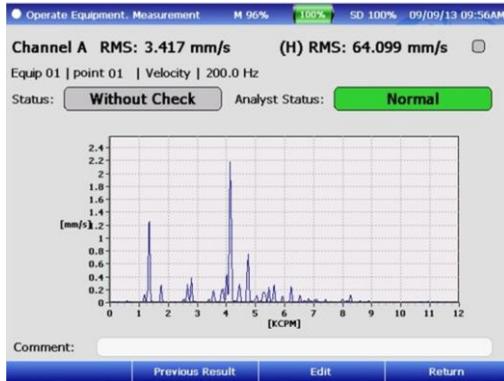
Each measurement is taken step by step, always showing on screen a value or a graphic value corresponding to each measurement, always waiting for the operator confirmation before each message of new item, or equipment.

Press ENTER key to start measurement, confirm actual and advance to the next one by pressing UP.

This option is ideal for operator analyst capacity, as it will allow you to have an idea of the condition of equipment.

At any measurement, the operator can choose to add a comment, which can be done once the measurement has been performed and is displayed on the screen by pressing F3.

There, the operator can choose between 3 fixed comments (“With abnormality,” “In track,” or “Normal”) or the operator can select “comment” to add their comment using the keyboard.



Once completed the route, you can check the status of each piece of equipment belonging to this particular route by selecting an equipment with the UP or DOWN keys and then pressing F3. This will enable you to view the status of points or see details of the equipment.



In “Conditions of points,” the system displays the status of each measurement made, as shown in the figure below.

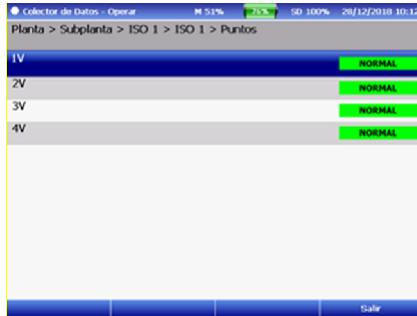


In “equipment details,” the system will show the condition of the last 5 measurements with dates, status, and, if available, a photo or diagram of the equipment in question.



View / Measurement

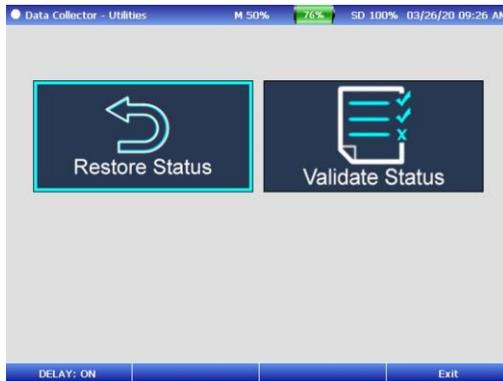
To view on the screen a measurement already realized is has to search in the rout of the equipment in question and list measurement points, always advancing with ENTER key



Then select the point that you want to see and press again ENTER, and It will be appeared on the screen the measurement realized with their status and through the F2 function, you will see on measurement screen already realized, pressing F1 it could Restore Status of this measurement and return with F4.

Utilities:

This option allows you to work with routes in two different ways:



Restore Routes:



This utility is very important because it will allow the operator to return the status of a route already measured to a state not measured, in order to make a new measurement route without losing measurements already made.

These remain in the computer's memory; in this way the same route can be re-measured as many times as needed, without having to connect the equipment to the PC.

Just simply select the route you want to re-measure and press F1 to restore it to NoAction.

Performing a hard reset causes the last measurements in the database to become part of the history generated within the DSP Expert Logger database.

After confirming the command to restore a plant, you will not have access to the last-covered values until you perform a transfer in the DSP Machinery Control software.



Validate Status:



If you have any doubts about the status of equipment or the measurements displayed by the system, this option states revalidation of each measurement made.

The failure of the validation of the equipment may happen if the computer runs out of battery power or shuts down accidentally.

Data Transfer:

To transfer data from PC to the DSP Logger Expert and back, you must activate the connection to a PC.



With this open enabled, the device will be available from the PC software, which will be responsible for sending and receiving routes and measures.

SEMAPI provides technical information on the Internet to assist with product use at www.dsplogger.com, where you can find technical manuals, a database with frequently asked questions, and application notes.

You can also find instructional videos for firmware of the DSP Logger Expert at <https://www.youtube.com/user/semapicorp>