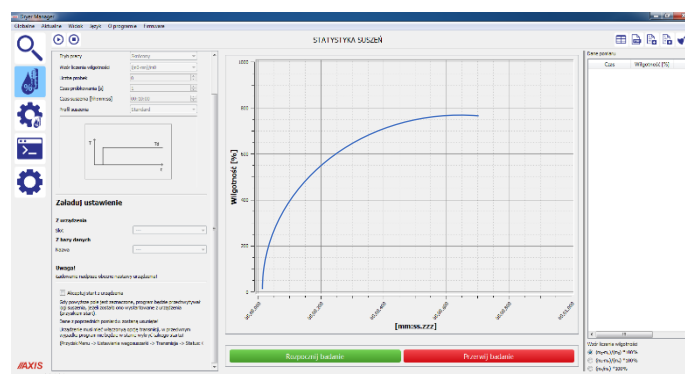




DRYER MANAGER

USER MANUAL

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1. Description of the DRYER MANAGER program

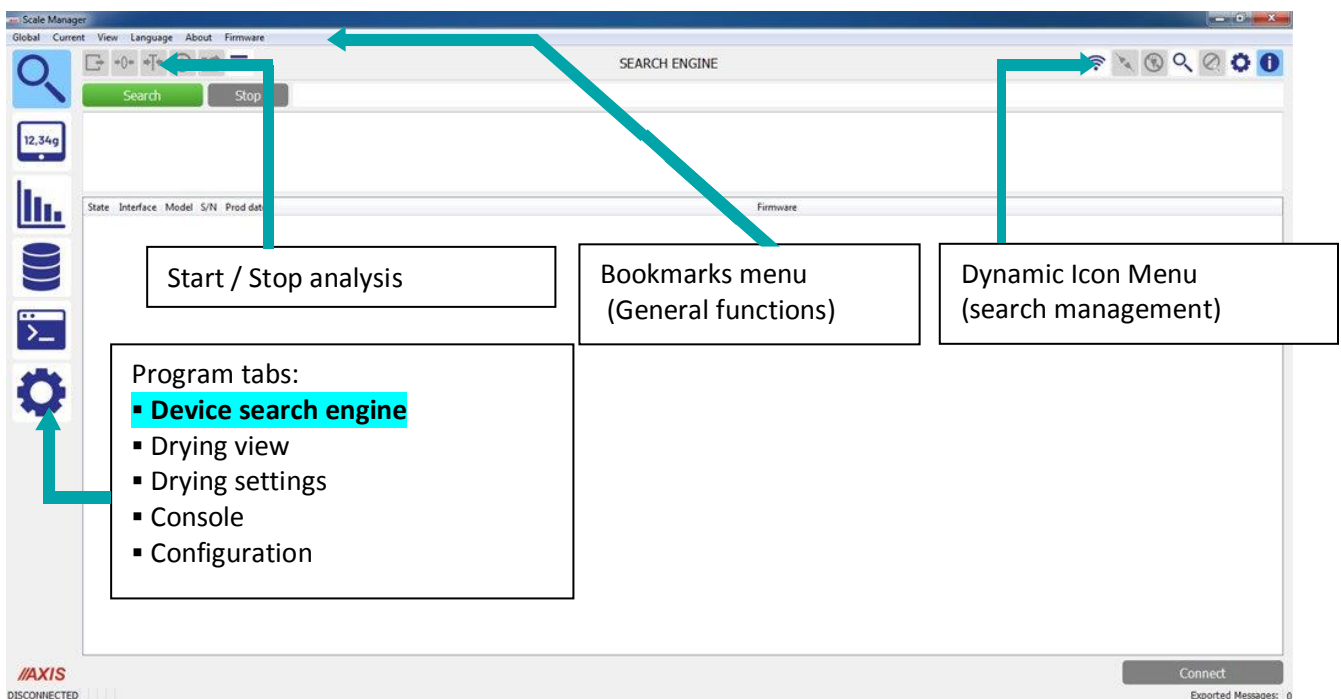
The program is used to operate moisture analyzers manufactured by AXIS Sp. z o. o. The program offers communication with moisture analyzers both via serial ports and via the network. The basic functions offered by the program are:

- moisture analyzer communication ports
- Recording of measurement results and export of collected data
- Drying process chart
- Statistics of collected data
- Configuration of drying process settings
- Console/terminal for direct communication with the scale
- Moisture analyzer CSV file configuration

The above functions have their own tabs. Tab selection is done using the icons on the left side of the screen.

1.1 Search Tab

This tab is usually where you start working with the program. The tab is used to **Search for devices** and connect to them.



At the top of the screen are the following menus:

- General functions menu facilitating current operations: Global, Current, View, Language, About
- Buttons: Start Test / Stop Test
- Dynamic Search Management Icon Menu

Global function has the same options as the *Moisture Analyzer Keys Menu* .

Current function has the same options as *the Dynamic Icon Menu* . The

View function allows you to change the visible fields in the program.

The Language function allows you to select English or Polish. The

About function contains general information about the program, including the program version.

Additionally, in the central part of the screen there are:

- Search button  - start searching for a device
- Button  - stop searching
- Search progress bar 
- Search Detail Fields
- Table of found devices
- Button  - connection

Button

The green button at the top of the screen. It is used to start [the search procedure](#) .

While the search procedure is in progress, the button is disabled.

Button

The button at the top of the screen next to the start search button. It is used to stop the search procedure.

The button is only enabled while the search procedure is in progress and the search stop procedure is not active.

Search progress bar

The bar at the top of the screen, next to the stop search button.

The bar shows the progress [of the search procedure](#) .

Search Details Field

Scrollable text field showing the log of the search procedure.

It is cleared before each search.

Table of found devices

A table that lists the devices found during the last search procedure.

It is cleared before each search.

Contains columns:

- Status - if the program is connected to the device it displays CON , otherwise blank
- Interface – displays at which address the device is connected
- Model - Device model

- S/N - Serial number of the device
- Prod date - device production date
- Firmware - Firmware number

Button Connect

/

 Disconnect

Button at the bottom of the screen used to request a connection/disconnect.

The appearance of the button may change depending on the program status, and its function changes as its appearance changes.

There are 2 possible button states:

1. Pre-connection state - *Green color* - The button is used to establish a connection
2. Status during connection - *Red color* - The button is used to disconnect

As the state changes, the text displayed on the button changes.

If it is not possible to request a connection/disconnection at a given moment, the button is disabled - it turns *gray*.

Icon menu

Connect



Disconnect



Start Search for devices



Stop searching



Settings



Show/hide details

Connection icon

Icon for establishing a connection

Disconnect icon

Icon for disconnecting the connection

Start search icon

Icon to start the search

Search stop icon

Icon for stopping the search

Settings icon

Icon for opening the search options window (baud rate, search mode)

Search details icon

Icon for toggling the visibility of the search details field.

Connection request

To connect to a device, the user has several options:

1. You can select the device and click the *Connect icon* from *the Icon Menu*
2. You can select the device and click *the Connect button* at the bottom of the window
3. You can double click on the desired device in the table

If the user requests a connection to a device while the search procedure is still in progress, the procedure is stopped and the program will attempt to connect after the search procedure has been stopped.

Disconnect request

To connect to a device, the user has several options:

1. You can click the *Disconnect icon* from *the Icon Menu*
2. You can click *the Connect button* at the bottom of the window
3. Can double-click the left mouse button on the currently connected device in the table

Switching between devices

If the program is connected to a device and the user wants to connect to another device available on the list, he can:

1. Manually disconnect and connect
2. Double-click the device you want to connect to - the program will automatically disconnect from the currently connected device and start trying to connect to the desired device

Unavailable devices

A case that may occur when dealing with a network device

There is a chance that during the search the program will find a device whose current configuration will prevent you from connecting to it.

In this case, it will be displayed in *the table of found devices* , but it will not contain all the information.

Model column will say *Unavailable!*

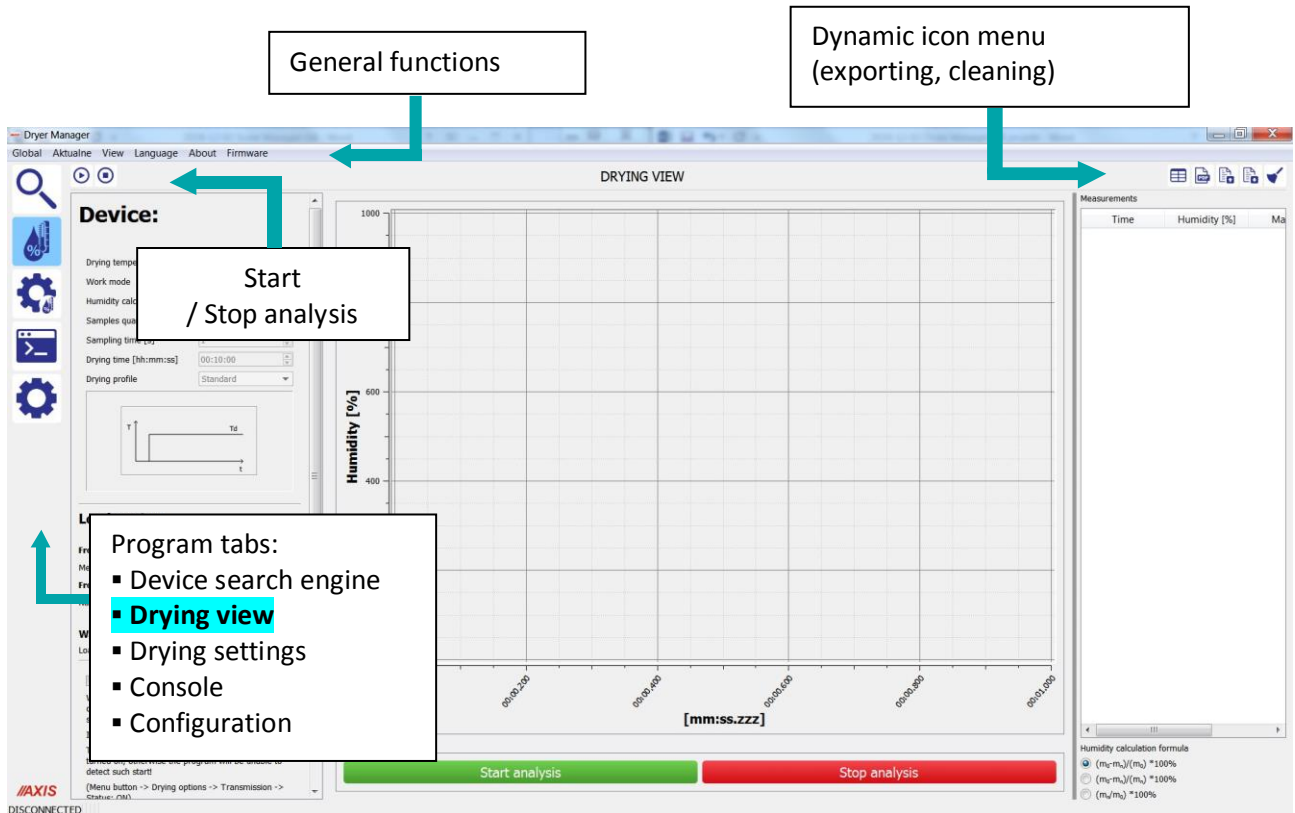
It is possible to connect to such a device provided that its network settings are changed beforehand.

After requesting a connection, the program will display a dialog box in which the user will be able to make appropriate changes to the parameters that prevent the connection.

If the user accepts the changes, the program will proceed to changing the network settings and, if successful, will attempt to connect to the device.

1.2 Drying Statistics Tab

In the **Statistics tab** , the program displays the current readings from the connected device.



When the device is connected, the last read measurement results are displayed in the form of a graph and table on the right.

The tab user interface is divided into 3 parts:

- Device settings panel (moisture analyzer)
- Measurement chart (drying statistics) (
- Measurement data table (results)

Device Settings Panel

The panel contains the current settings of the drying process in the moisture analyzer . It is possible to download the settings from the moisture analyzer memory or from the program's handy database.

Chart

Chart axes:

- The Y-axis represents humidity
- The X axis represents time

Scaling the chart is done using the mouse (by hovering over and clicking on the chart you can move it).

Measurement data table

The data table contains the following data (results) from the measurements:

- time
- humidity calculated according to the formula chosen below

Icon Menu Options

Measurement settings



PDF export



Export to CSV



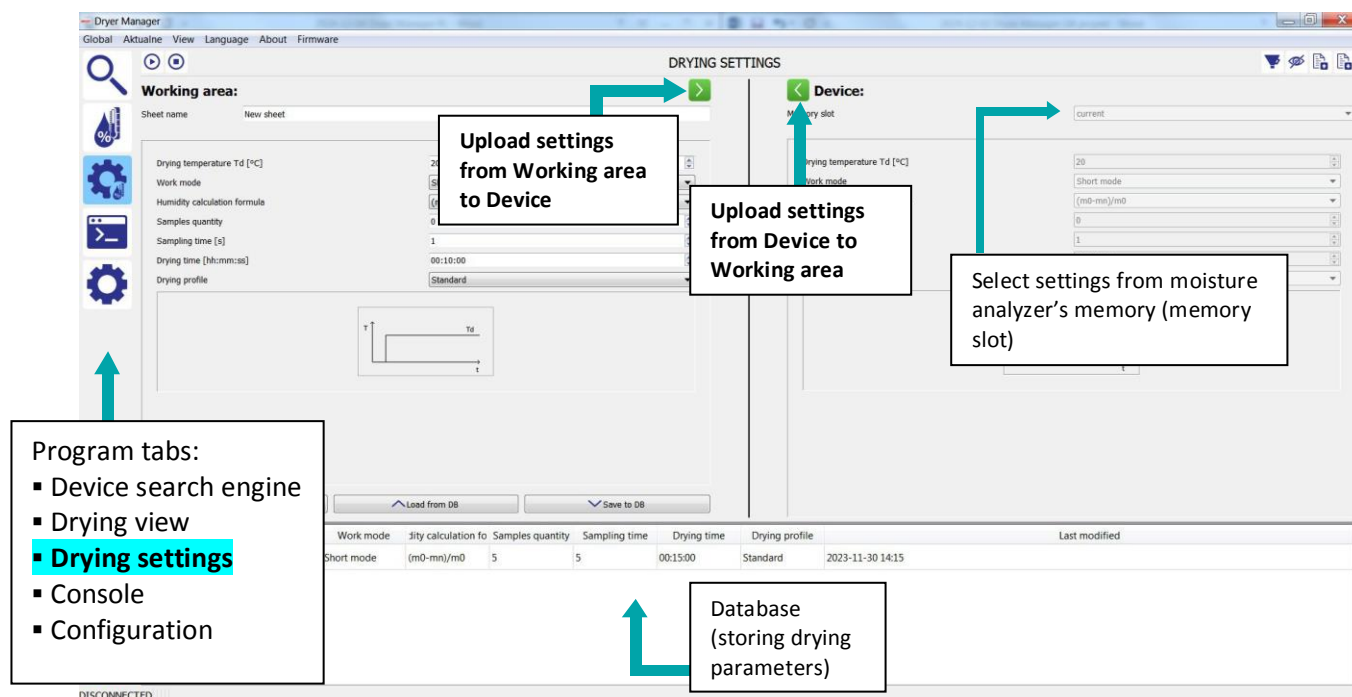
Import from CSV



Data cleaning

1.3 Drying settings tab

The moisture analyzer is equipped with a memory that allows for storing 10 or 20 drying settings programmed and numbered by the User. The **Drying Settings** tab is used to edit and save these settings to the moisture analyzer memory. User can also create new settings in Dryer Manager and upload to the device.



The window is divided into 3 parts:

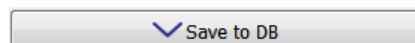
- Working area (for editing drying parameters)
- Device area (selecting memory slot)
- Database (DB) (storing drying settings)

Working area

Contains a set of moisture analyzer editable settings :

- Drying temperature
- Working mode
- Moisture calculation formula
- (Number of samples for Short Mode)
- Sampling time
- Drying time
- Drying profile + profile sketch

User can save settings from workspace to software's database



or send them directly to moisture analyzer



Database (DB)

The database is used to save drying settings, which the user then selects as ready-made sets, avoiding the need to enter all the data one by one. The database has no memory limits.

Possible actions:

- Deleting data from the database



Delete from DB

- Loading data from the database to the working area
(from working area user can upload settings to device)



Load from DB

- Saving from working area to database



Save to DB

Icon Menu Options



Database filtration



Database Column Visibility



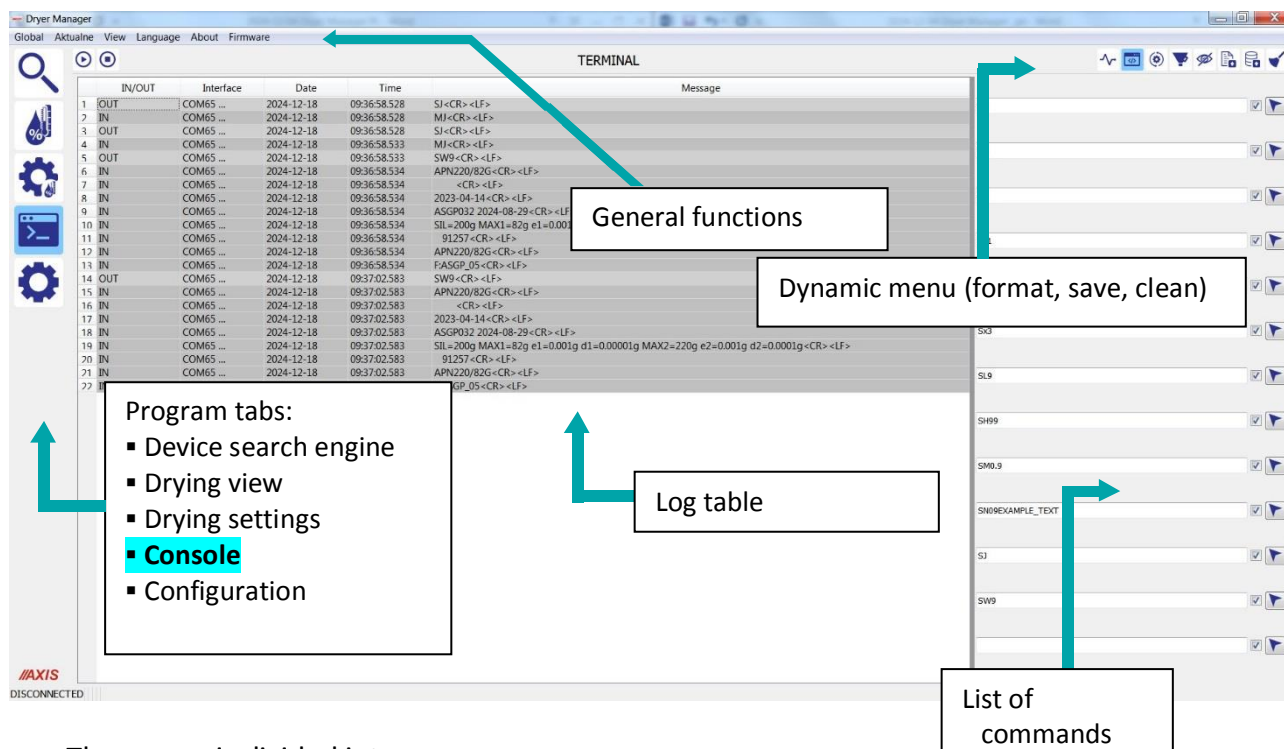
Export to CSV



Import from CSV

1.4 Console Tab (for technicians and installers)

Console (terminal) tab is used to display communication logs with devices and to send commands directly to the moisture analyzer .



The screen is divided into:

- Log table (central part)
- List of commands to send (on the right)

Log table

Table containing logs from communications with devices.

Contains 5 columns:

- IN/OUT - information whether the message is incoming or outgoing
- Interface - containing information about the interface on which communication takes place
- Date - Log date
- Time - Log Time
- Message - message content

In addition to the information in the IN/OUT column, incoming and outgoing messages can be distinguished by the colors of the row:

- Outgoing messages - light gray color
- Incoming messages - dark gray color

List of commands

A list containing widgets with example commands that can be sent to the device.

Each command on the list can be edited. There is an option to restore them to their initial state.

For each command there is one widget from the list:

Command List Widget

It consists of 3 elements:

- Command text field - what message is to be sent

- Checkbox CR/LF - specifying whether the program should add CR LF at the end of the command
- Send button - request to send a command

Icon Menu Options



Toggle automatic connection check



Toggle log formatting using CRLF



Restore command list to default state



Log filtration



Toggle column visibility



Saving logs in CSV format



Raw log recording



Clearing logs

Toggle automatic connection check

Enables/disables the [automatic connection check function](#)

Toggle log formatting using CR LF

Toggles the log table formatting mode between no formatting and CRLF formatting

Restore command list to default state

Restores the command list to its default values.

Saving logs in CSV format

Saves logs to a file in *.CSV format

Raw log recording

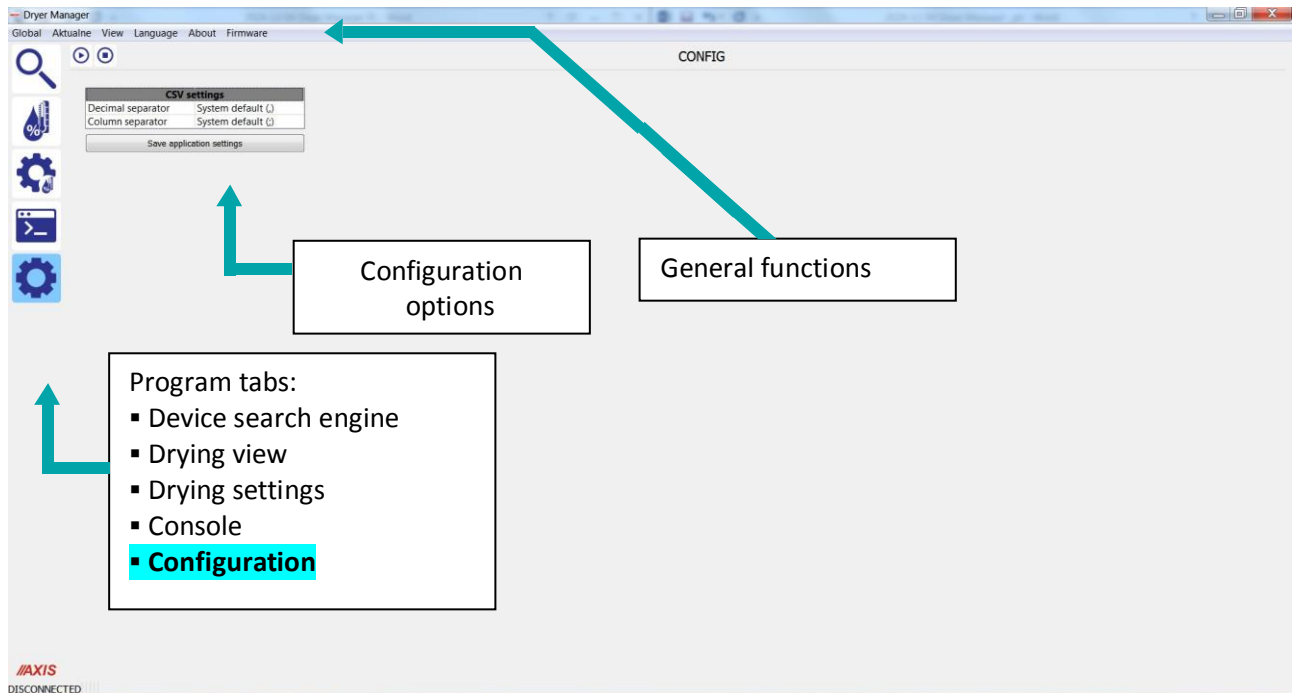
Only saves the content of incoming messages.

Clearing logs

Clears the logs, warning you with a message that the operation cannot be undone.

1. 6 Configuration Tab

Configuration tab is used to select the characters that separate data when transferring files.



Configuration data:

- Decimal separator
- Column separator

It is recommended to select system options (, and ;)