



Evaluation App

GESTRA TRAP*test* VKP portal

Version 1.4.

Contents

Foreword.....	4
Compatibility	4
Registering and setting up the TRAP test VKP portal web app	4
Note	4
User management.....	4
Resetting the password	5
First steps	6
Setting units in the web app	6
Setting units in the VKP 42 portal app.....	6
Setting the language of the data collector (VKPN)	6
Data collector (VKPN) settings for transferring data.....	6
Transferring data to the Com box via Bluetooth.....	6
Overview of tests.....	7
Normal check – Scheduled checks.....	7
Quick check	7
Companies – Layout.....	8
General hierarchy	8
Resulting spatial layout of “z Sample” company	8
Tabular layout of “z Sample” company	9
Overview of the TRAP test VKP portal web app	10
Overview of all companies – Editing data	11
Creating companies	11
Editing companies.....	11
Defining the RFID tag of a company	11
Deleting a company.....	12
Assigning documents to the company	12
Backing up test objects with Excel® download.....	13
Creating an Excel® file for the Excel® upload	13
Importing test objects with Excel® upload.....	13
Importing/backing up an entire database.....	13
Company (e.g. z.Sample) – Editing data.....	14
Adjusting the view – Setting filters	14
Available filters.....	14
Column header with sorting feature for ascending and descending order	14
Number of test objects shown in the view	14
Change view – Show more test objects.....	14
Icon, button	15
Creating test objects	15
Editing test objects – Detailed view	15
Test objects – Setting a route – Changing the route order.....	15
Selecting a test object.....	16
Selecting an entire column	16
Status display.....	16
Selecting for testing	16
Resetting the previous selection	16

Contents

Assigning and deleting testers	16
View of test results of a test object	16
Report	17
Performing a steam loss calculation	17
Viewing test results	17
Overall view	17
Planning test jobs – Detailed view	17
Managing test objects in the web app	18
Creating a test object	18
Editing test objects	19
Copying a test object	19
Replacing a test object	19
Editing a test object	19
Deleting a test object	19
Adding new steam trap models	19
Using Excel®	20
History of test objects	20
Transferring data between the web app and the VKP 42 portal app	21
Exporting test objects – Web app -> VKP 42 portal app	21
Importing test objects – Web app <- VKP 42 portal app	21
Deleting test objects from the VKP 42 portal app	21
Performing steam trap tests with the VKP 42 portal app	22
Normal check – Performing a test	22
Creating test objects in the VKP 42 portal app	22
Editing or replacing a test object in the VKP 42 portal app	22
Quick check	22
Additional data	23
Special company “z Sample”	23
Using QR codes and NFC tags	24
Data backup	24
Extras	25
Manufacturer	25
QR search mask	25
NFC search mask	25
Settings	25
Tester	25
Language	25
Documents	25
Information on the version number	25
Evaluation logic table	26
Abbreviations	27
Test results and recommended action	27
Troubleshooting	29
Error identification	29
Troubleshooting table	29

Foreword

Web app for evaluating and documenting steam trap tests with the GESTRA TRAPtest VKP portal system. In the web app, you can set up companies and test objects. These test objects can then be edited, copied, replaced and deleted. The test results of the test objects and history are saved.

Formatting features in the document

The document includes the following formatting features for ease of use:

Normal text

- Action to be taken
- Menu navigation

The Instruction Manual features the following symbols.

Symbol	Meaning
	NOTE These tips contain additional information, such as special tips on cost-effective use of the equipment.
	ATTENTION These comments contain important information for the correct use of the equipment.

Compatibility

Data collector: VKPN 42 (Ex)

Data: TRAPtest VKP portal, version 1.4, import of *.VKP(x) and *.XLSX files

Registering and setting up the TRAPtest VKP portal web app

Before you can use the web app, you must register on the VKP42 portal. Have the serial numbers of your equipment to hand. You will find them on the equipment case.

- Go to www.gestra.com/resources/pages/product-registration.
- Select "VKP 42 portal / VKP 42 Ex portal".
- Enter your e-mail address.
- Enter the serial numbers of the components.
- Complete the registration.

Once you have registered, you will be given access to the portal within 48 hours. For this, you will receive an e-mail (please also check your spam folder), which lets you set your password.

This password must have at least eight characters, including upper- and lower-case letters, numbers and special characters.

Once you have set your password, you will be able to use the web app:

- In your chosen browser, enter the URL: <https://gestra.vkp-portal.de>
- Log in to your user account.
- Connect the data collector to the internet.
- After you have successfully registered, carry out a data transfer with the data collector before working with it in the system. The steam trap database is downloaded during this process, for example.



Note

Before working with the web app, please carry out the following settings in the data collector:

- Set your desired language.
 - Extras/Languages menu
- Select metric or imperial units.
 - Extras/Settings menu

Attention

Switching from one unit to another does affect existing data; temperature and pressure will be converted.

User management

User accounts must be set up, edited, deleted or disabled via the primary user login. Any user wishing to work with the web app or to transfer data with the data collector must have a valid e-mail address and functioning internet access.

Proceed as follows to create further users:

- Open the user list.
- Create a new user account.
- Enter an e-mail address.
- Assign a password.



Note

The user must change this password the first time they log in. The user login credentials will be needed later on to authorise the data transfer in the VKP 42 portal app.

- Confirm your entries and complete the process.

The user is now registered and can access the web app with their login credentials.



Note

The primary user login credentials are set up by GESTRA and sent to the customer. New users can only be set up via the primary user login.

Resetting the password

To reset the password, open the login screen and click on “Forgot password”.

- Enter and confirm your e-mail address.

You will be sent an e-mail containing a link with which you can reset the password.

If you do not receive this e-mail, check that you have entered your e-mail address correctly or contact Technical Support.

- Click on the link in the e-mail.
- Enter the e-mail address that you use to log into the web app and enter a new password.
- Confirm the new password and confirm the process.
- With the new password, log in via the login screen.

First steps

Setting units in the web app

- Before working with the web app, set your required units and make other optional settings as necessary.
 - Extras/Settings menu

Attention

To avoid errors, make sure the same unit settings are selected in the **web app** and in the VKP 42 portal app.

Setting units in the VKP 42 portal app

- To launch the VKP 42 portal app, tap the relevant icon on the display of the data collector.
- At the top right, you will see a button for opening submenus.
- Tap the button to open the submenus.
- To change the units, tap "Units: SI/IMP".
- Set the unit you require.

Setting the language of the data collector (VKPN)

- Select the desired language.
 - Extras/Settings/Language

If your chosen language is not available in the VKP 42 portal app, English will be used.



Data collector (VKPN) settings for transferring data

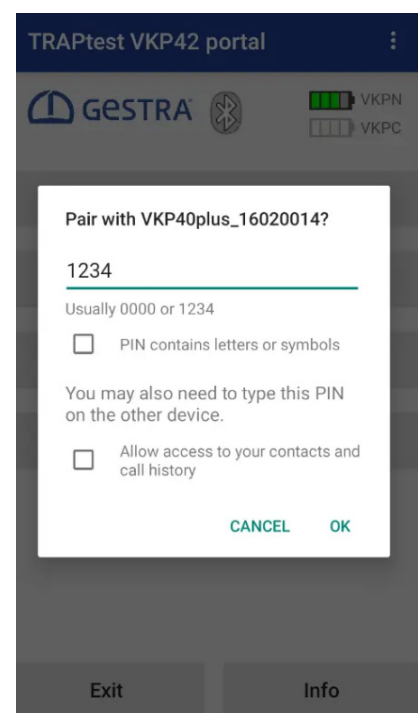
Transferring data to the web app wirelessly/via the mobile phone network

To transfer data with the data collector, both the data collector and the device on which the web app is open will need a functioning internet connection.

If this is the case, you can start synchronisation via the "Data Transfer" button.

Transferring data to the Com box via Bluetooth

If you are asked for a password for Bluetooth pairing, enter "1234".

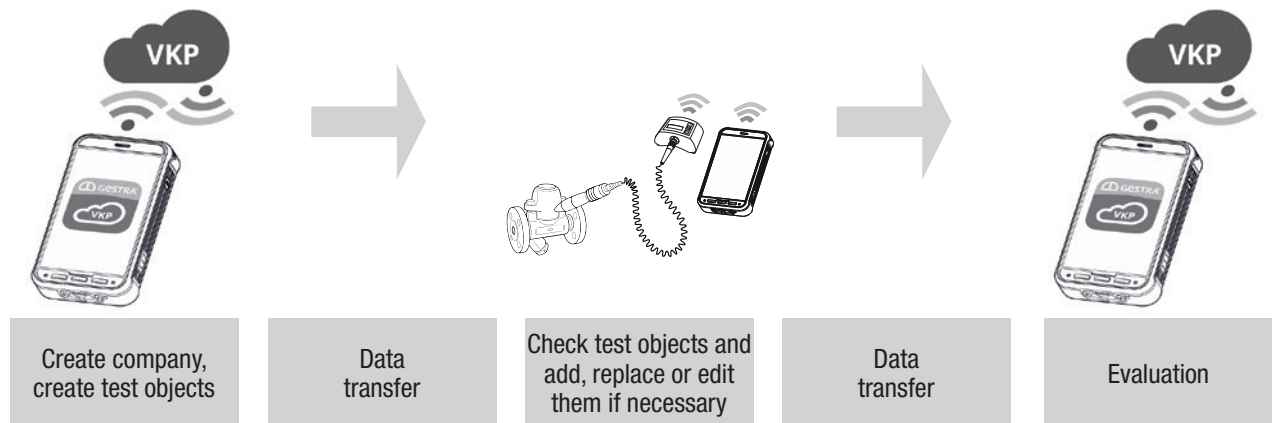


Overview of tests

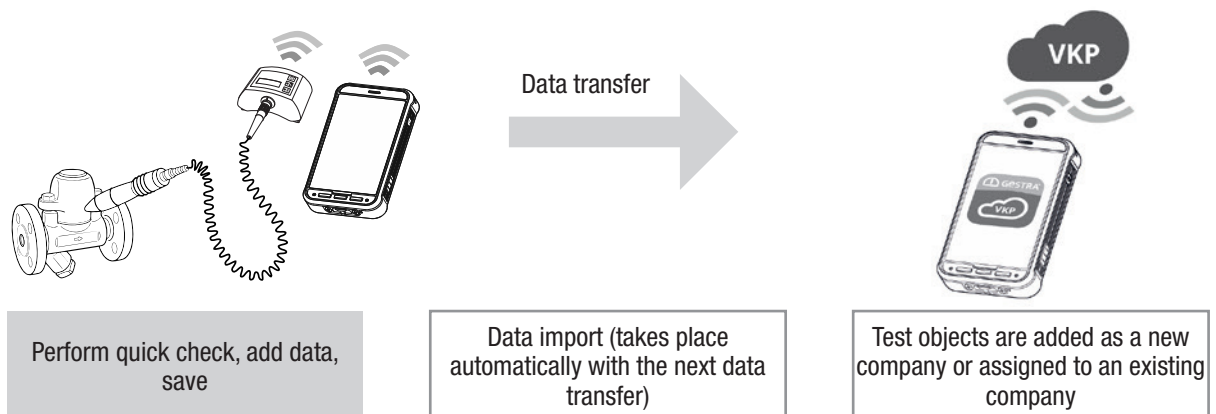
There are two options for checking test objects (steam traps):

- **Normal check**, prepared in the web app, organised in a company with detailed test objects
During the test, you can use the VKP 42 portal app to add, replace and edit test objects or add new ones.
- **Quick check**, no preparation required in the web app. If the results of the quick check are to be saved and transferred to the web app, a test object is created on the data recorder after the test and is assigned to an existing or newly created company. This procedure is also suitable when testing a plant for the first time. A test can be performed and the test object created in a single operation.

Normal check – Scheduled checks



Quick check



Note

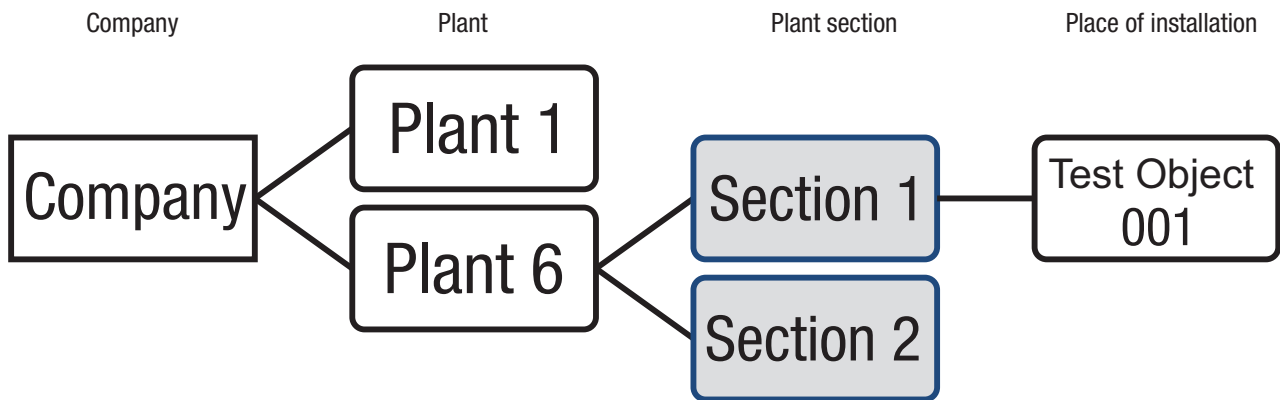
With the quick check, a test object (steam trap) can be tested immediately. The test results are transferred to the web app and the data is available for further processing.

Companies – Layout

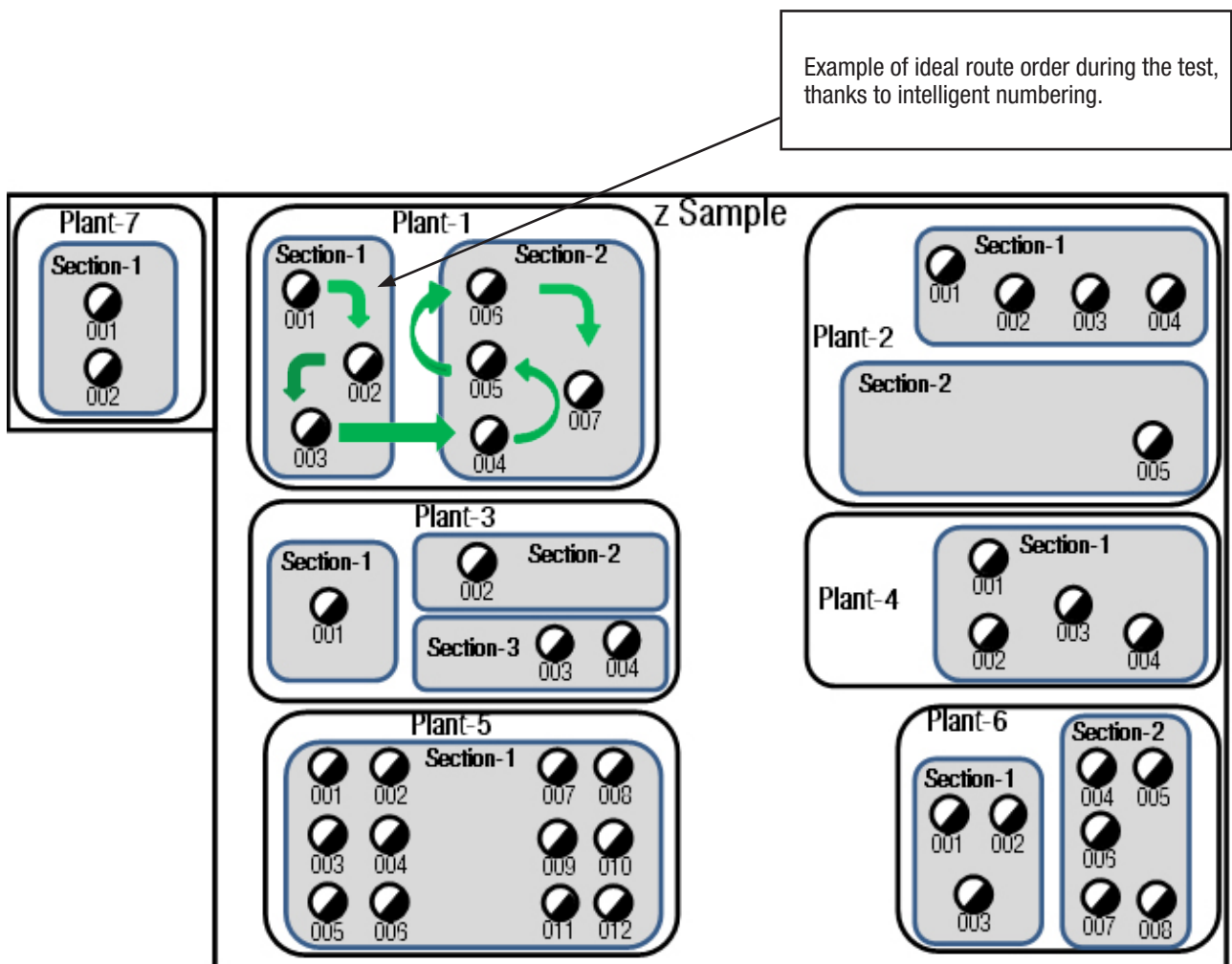
The “Companies” tab contains all details on test objects, testers, results and evaluations.

General hierarchy

The address of a test object is described in full as follows:



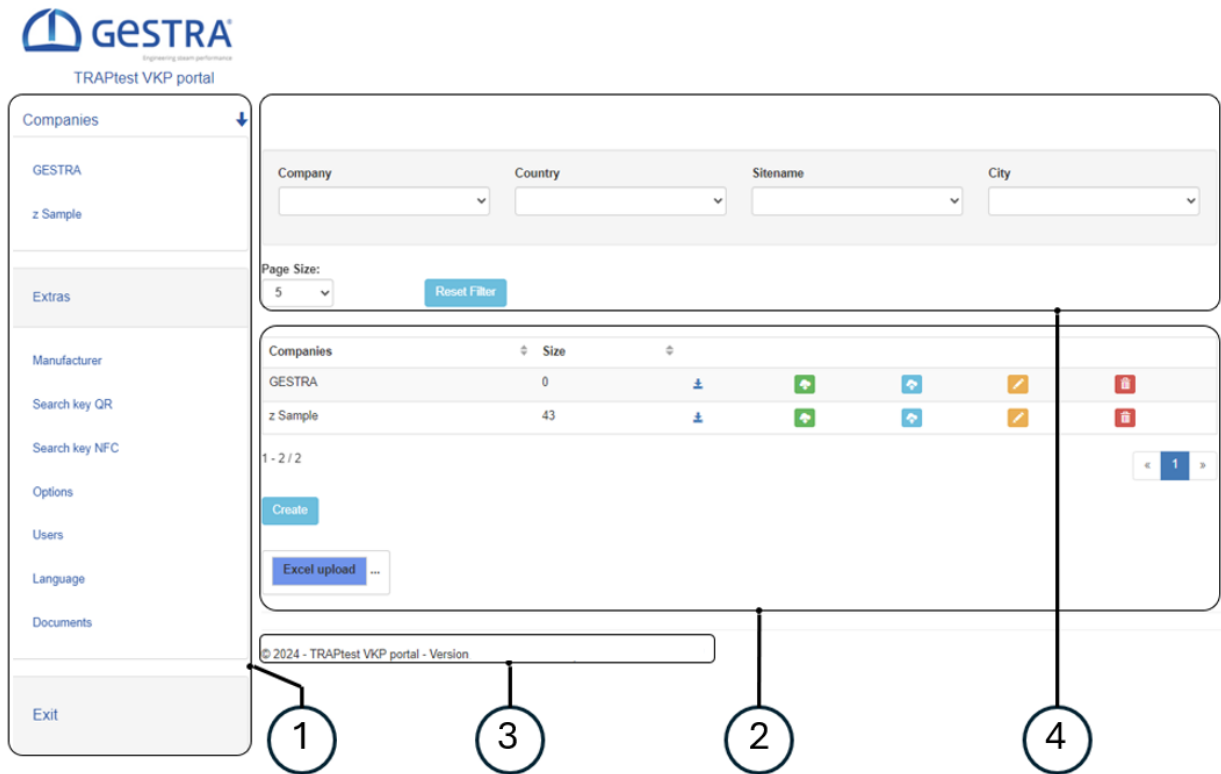
Resulting spatial layout of “z Sample” company



Tabular layout of “z Sample” company

Company	Plant	Plant section	Place of installation
z Sample	Plant-1	Section-1	001
z Sample	Plant-1	Section-1	002
z Sample	Plant-1	Section-1	003
z Sample	Plant-1	Section-2	004
z Sample	Plant-1	Section-2	005
z Sample	Plant-1	Section-2	006
z Sample	Plant-1	Section-2	007
z Sample	Plant-2	Section-1	001
z Sample	Plant-2	Section-1	002
z Sample	Plant-2	Section-1	003
z Sample	Plant-2	Section-1	004
z Sample	Plant-2	Section-2	005
z Sample	Plant-3	Section-1	001
z Sample	Plant-3	Section-2	002
z Sample	Plant-3	Section-3	003
z Sample	Plant-3	Section-3	004
z Sample	Plant-4	Section-1	001
z Sample	Plant-4	Section-1	002
z Sample	Plant-4	Section-1	003
z Sample	Plant-4	Section-1	004
z Sample	Plant-5	Section-1	001
z Sample	Plant-5	Section-1	002
z Sample	Plant-5	Section-1	003
z Sample	Plant-5	Section-1	004
z Sample	Plant-5	Section-1	005
z Sample	Plant-5	Section-1	006
z Sample	Plant-5	Section-1	007
z Sample	Plant-5	Section-1	008
z Sample	Plant-5	Section-1	009
z Sample	Plant-5	Section-1	010
z Sample	Plant-5	Section-1	011
z Sample	Plant-5	Section-1	012
z Sample	Plant-6	Section-1	001
z Sample	Plant-6	Section-1	002
z Sample	Plant-6	Section-1	003
z Sample	Plant-6	Section-2	004
z Sample	Plant-6	Section-2	005
z Sample	Plant-6	Section-2	006
z Sample	Plant-6	Section-2	007
z Sample	Plant-6	Section-2	008
z Sample	Plant-7	Section-1	001
z Sample	Plant-7	Section-1	002

Overview of the TRAPtest VKP portal web app



No.	Designation or meaning
1	Dropdown menu
2	Work area
3	Product information
4	Filter area

Icon	Designation or meaning
	Download – Excel
	Upload – Excel
	Delete
	Test results
	Edit
	Save
	Select objects
	Selected for testing
	Uploaded in VKP 42 portal app
	Download *.VKP(x) database

Overview of all companies – Editing data

→ Companies tab

No.	Designation or meaning
1	Create company
2	Rename company
3	Delete company
4	Back up test objects with Excel® download
5	Import test objects with Excel® upload
6	Back up data set with VKP(x)
7	Filter
8	Test objects in the company

Creating companies

- To create a new company, click on the “Create” button.
- Enter the name.
- Enter the data relating to the site (mandatory fields are indicated).
- (Optional) Upload the company-based documents as an Overall Plant Document or plant section-based documents.
- (Optional) Approve the company for the shared group of primary users.
- Confirm your entry.

Editing companies

- Click on the  icon to rename the existing company or add information relating to the company.
- Enter a new name.
- Confirm your entry.

Defining the RFID tag of a company

- To edit the existing company, click on the  icon.
- Select an existing search string or create an individual search string for the QR code and NFC tags.
- Confirm your entry in either case.

Deleting a company

- To delete a company, click on the  icon.
- Confirm your entry.

Assigning documents to the company

- Click on the  icon to edit the company.
- Click on [PDF file upload \(plant documents\)](#) and select the relevant PDF document.
- Define whether the document is a general document or is to be assigned to a plant:
- Now click the “Upload” button to upload your chosen file to the web app.
- The document is now added to the plant

Plant documentation

Overall plant document

Plant documentation

Overall plant document

Download 

Overall plant document

Anlage1

 Delete all



Note

If an Overall Plant Document has already been assigned to the company and you add another Overall Plant Document, this will overwrite the previous document, as only one Overall Plant Document can exist per company.



Note

If several objects are assigned to the company, plus an Overall Plant Document and a plant-based document, only one document can be loaded on the data collector via the data transfer feature of the VKP 42 portal app. In this case, the Overall Plant Document is given priority and the plant-based documents are greyed out.



Note

If a dedicated, personalised route sorting system is enabled for a company and transferred to the data collector, only one Overall Plant Document can be displayed in this company. Since the objects are arranged in list formation, they cannot be assigned to plants, which prevents plant documents from being shown.

Backing up test objects with Excel® download

Save the most important data, test objects and most recent test result as an Excel® file.

- To create a backup file, click on the  icon.

An Excel® file with the name of the company is saved in Downloads.

Creating an Excel® file for the Excel® upload



Note

To make sure you use an Excel® file with the correct format:

Either edit an existing file or create a new company with a test object, then run Excel® Download and change the content in this file.

Note the following for the columns:

A-F must be present

Attention

Columns **G, H** contain formulas and must not be overwritten!

The content of these cells is updated either straight away or when the file is saved, depending on the settings in Excel® Options/ Formulas/Calculation options.

I, J are not imported

K is optional. A pressure is entered here, so that the operating temperature of the test object can be included in the results of the test. If these cells remain empty, only a cold/not cold test is performed during the test.

L-Q are optional

R, S are not imported

V-AB are optional



Note

20,000 test objects (rows) are permitted.



Note

The next test date must be written in the Excel file in the U.S. format MM/DD/YYYY, as otherwise it will not be understood correctly.

Importing test objects with Excel® upload

Import the main data and test objects into an existing company. The Excel® file must have the same format as the Excel® file from the Excel® download. New test objects are added, existing test objects are not imported.

- To import test objects, click on the “Excel® Upload” button.
- Select the Excel® file and confirm your entry.

The selected Excel® file is shown after the “Excel® Upload” button.

- Click on the  icon of the company you require.

The test objects are now displayed in that company’s submenu.

Importing/backing up an entire database

The servers of the web app back up data automatically at regular intervals, so therefore it is essentially unnecessary to download backup copies of databases.

To export the database of a company, click on the  icon of that company. The download now begins automatically and may take several seconds, depending on the volume of data relating to the company. After a successful download, you will see the file in the Download menu of your browser.



Please note that any existing plant documents or images of the individual test objects will not be downloaded with the database.

*.vkp(x) databases can be imported using the Settings menu. Here, first click on the “Vkp(x) file upload” button to select your saved database on your PC, then click the “Upload” button to upload it.

Company (e.g. z.Sample) – Editing data

→ Companies / Chosen company (e.g. z Sample)

Adjusting the view – Setting filters

1 3 2 4

No.	Designation or meaning
1	Available filters
2	Column header with sorting feature for ascending and descending order
3	Number of test objects shown in a view
4	Change view – Show more test objects



Note

The order of a company's test objects in the web app determines the order of tests when data is transferred to the VPK 42 portal app. If you choose an individual order, this dictates the order of test objects on the VPK 42 portal app.

Available filters

- Using the filter feature, sort the test objects into the desired order (by plant and plant section, for example).

Column header with sorting feature for ascending and descending order

When you click on the column header, the test objects are sorted in ascending or descending order.

- Use this feature to sort the test objects into the desired order (by place of installation, for example).

Number of test objects shown in the view

- Set the number of test objects you wish to be displayed.

Change view – Show more test objects

If you wish the list to contain more test objects, you can change the view using the buttons.



Note

When you change the view, the marked selection of test objects is deleted. Set the status before you change the view (see "Selecting for testing" section). Here, you have the option of filtering the objects by their properties and then checking the box to select all objects, so that all available objects are marked with that property.

Icon, button

→ Companies / Chosen company (e.g. z Sample)

No.	Designation or meaning
1	Create a test object
2	Edit test objects – Detailed view
3	Select a test object
4	Select entire column
5	Status display – Data transfer
6	Select for testing
7	Reset previous selection
8	View of test results of a test object
9	Report
10	Perform steam loss calculation
11	Assign/remove tester
12	Assign/remove test date
13	Configure route order
14	Back

Creating test objects

Here, you can create new test objects (see “Test objects” section).

Editing test objects – Detailed view

Here, you can view the details of test objects and edit, copy and replace them (see “Test objects” section).

Test objects – Setting a route – Changing the route order

Test objects can be individually sorted. To do this, individual orders can be entered in the last column. The route order function is linked to the filter and sorting feature. You can therefore select a column and then filter the objects by their properties and sort the columns. Once you have decided on the route order, use the SetRouteOrder button to enter the order in the last column. If you still have to move an object, enter the desired location in the row of this object. The object is then moved from its previous location to your desired one. The other objects then all move up one row.

Selecting a test object

Mark the test objects that you wish to transfer to the VKP 42 portal app for a normal check.

- Check the boxes to select the test objects you wish to test.

When a test object is selected, it has a check with a grey background.



Note

To select test objects for testing, you must first sort them using the filter and the column header sorting feature. Changing the view (see the “Selecting for testing” section).

Selecting an entire column

- To select the entire view, check the box in the column header.
- All test objects in the view have a check with a grey background.

Status display

The status of data transfer between the web app and the VKP 42 portal app is shown in the “Status display” column.

Green	Will be sent with the next data transfer.
Yellow	Is in the VKP 42 portal app for processing

Selecting for testing

- Select the test objects you wish to test.
 - Click on “Select for testing”. The status of the selected test objects turns green.
- The test objects are ready for data exchange with the VKP 42 portal app.

Resetting the previous selection

- Select the test objects that you no longer wish to transfer.
- Click on “Reset selection”. The status of the selected test objects is deleted.

Assigning and deleting testers

Assigning testers

- Select test objects using the checkbox.
- Tap the “Assign tester” button.
- Select the **Tester(s)**; you can also select several testers here.
- Click “Apply” to confirm your selection.

Removing testers

- Select test objects using the checkbox.
- Click on the “Assign tester” button
- Click on the “Reset” or “ResetAll” button to remove all or just selected testers.
- Use the “Reset” button to delete the selected **Tester(s)** from the selected objects.



Note

If no tester is selected and the tester field of a test object that is selected for testing remains empty, any user can upload the objects to the VKP 42 portal app via data transfer. In this case, the person who receives the test objects is the one who performs the first data transfer after the objects were selected for testing.

View of test results of a test object

Display all test results.

Report

View the different reports.

Performing a steam loss calculation

Calculate the steam losses, costs and CO₂ emissions of faulty test objects.

- Select the faulty test objects.
 - Click on the “Calculation” button.
 - Enter the fuel costs and annual operating hours and click on the “Calculation” button.
- You can document the calculation using the “Report” button.

Viewing test results

Display the test curves of the filtered view.

Overall view

Previous test results can be viewed in the pie chart next to the filters. This has the advantage of providing a rapid overview of a company’s NOK or OK rate. If you hover the mouse over a field, a small piece of information is shown.

Key to test results:

Green	OK
Red	NOK
Yellow	Banking-up of condensate
Blue	Cold
Light brown	Foreign noise
Dark brown	Check
Grey	Comment
Orange	Not checked

Planning test jobs – Detailed view

- Create test objects
- Filter and sort test objects if necessary
- Select test objects for testing
- Assign selected test objects to the tester
- Launch the data transfer in the VKP 42 portal app

Managing test objects in the web app

A test object (steam trap) must be clearly described using the following data: Plant / Plant section / Place of installation / Type designation / Location / Working Principle / Manufacturer.

→ Companies / Chosen company (e.g. z Sample)/Create

Plant - Select -	Plant section - Select -	Place of installation
---------------------	-----------------------------	-----------------------

Location Heat exchanger	Operating pressure bar	Ts °C
Type designation - Select -	Back pressure bar	
Working Principle - Select -	DN 	Date of installation 18.09.2024
Manufacturer - Select -	Nominal pressure 	Orientation

Connection type 	Version 	Remark
Fluid 	Construction 	Construction class
Accessibility 	Order code 	Installation description
	GPS Latitude 	GPS Longitude

[←](#) [Copy](#) [Exchange](#) [Edit](#) [Delete](#) [Save](#) [Cancel](#)

Attention

Each designation may only be used once in a company.

Entering a value for upstream pressure is recommended. Then, the operating temperature of the test object is included in the results of the test. This gives the test clear added value. If this field remains empty, only a cold/hot test is performed during the test.

Attention

If the entered and actual pressure differ significantly, this can lead to incorrect results.

All other fields are optional and are used for a detailed description.

Ta is the most recently measured temperature of the test object.

Creating a test object

- In the desired company, click on "Create" to create a new test object.
- Enter the equipment type in the "Type designation" field.



Note

Use the dropdown menu or enter the first letters of the equipment type to make your selection faster.

- If the equipment type is not available in the dropdown menu, select a similar equipment type.
- Click on the "+" symbol to additionally enter a plant or plant section and a new equipment type, if yours is not included in "Type designation" in the dropdown menu. Confirm your entries.
- For a new equipment type, you also need to select the working principle and manufacturer.
- Specify the place of installation.
- Add further details about the test object.
- Click on the "Save" button to save the data.

Editing test objects

You can edit test objects in the “Create” menu in “Edit test objects – Detailed view”.

- Companies / Chosen company (e.g. z Sample)
- Click on the  icon in the row containing the test object.
- In the detailed view, click on the “Copy”, “Exchange” or “Edit” button.
- Save your entry.

Copying a test object

Copy an existing test object and save it with a new place of installation.

Replacing a test object

Replace the steam trap model in an existing test object. The defined place of installation stays the same. The test result of the existing test object is deleted.

Editing a test object

You can edit all information in a test object, with the exception of the type designation. The test result is retained.

Deleting a test object

You can delete a test object in the “Create” menu in “Edit test objects – Detailed view”.

- Companies / Chosen company (e.g. z Sample)
- Click on the  icon in the row containing the test object that you wish to delete.
- In the detailed view, click on the “Delete” button.
- Confirm your entry.

The test object is deleted from the view.

Adding new steam trap models

Open the dropdown menu to enter the type designation. The system suggests equipment types from the list. You can add new equipment types to the list if your desired steam trap is not available.

- Click on “+” and enter the details and the new steam trap model.
- Confirm your entry.

Attention

To make sure there are no duplicate type designations, please always search for the desired equipment type first in the “Type designation” field.

- In the “Type designation” field, select a similar equipment type from the dropdown menu or select the blank field.



Note

The plant and plant section fields do not have to be filled in. If nothing is available to select in the plant and plant section fields, you can also enter new information via the additional window. All entries in the additional field are created as new data.

- Select the working principle and manufacturer.
- Specify the place of installation, e.g. with a consecutive number.
- Enter further details about the test object.
- Save your entries with the “Save” button.



Note

To be able to save a test object, you must fill in the Plant, Plant section, Place of installation, Location, Working Principle and Type designation fields, as a minimum.

Using Excel®

- Generate an Excel® file (see the “Importing test objects with Excel® Upload” section).
 - Open the Excel® file.
 - Add the manufacturer to the “Manufacturer” worksheet and sort the column again.
 - In the “SteamTraps” worksheet, add the type designation in column A. Click on the appropriate cell in column B. A dropdown menu appears, and here you can select the manufacturer. Click on the appropriate cell in column C. A dropdown menu appears, and here you can select the working principle. Sort the worksheet again if necessary.
- In the “VKP-Testobjects” worksheet, the dropdown menu in column F contains the new steam trap model.
- Create new test objects in the “VKP-Testobjects” worksheet.
 - Upload the Excel® file to the web app.

History of test objects

You can view the history of a test object, based on the place of installation, along with the relevant results.

To do this, click on the  icon next to the test object you wish to view.

This opens a display of results containing information for each test, stating the place of installation, equipment specification, test curve and list of available tests for the object.

You can view each test on the list by clicking on the  icon.

Click on the  icon to print out the test in question as a report.

If you would like a cohesive report summarising all available results, click the “Print history” button.

Use the Back arrow to return to the overall test object view of the company.

Transferring data between the web app and the VKP 42 portal app

The tests are performed with the VKP 42 portal app. For this, the data needs to be exchanged between the web app and the VKP 42 portal app. The Status column in the web app contains the test objects that are ready for data transfer. When data transfer is launched on the VKP 42 portal app, test objects are exported and imported.

- Connect the data collector to the internet
- In your chosen browser, enter the URL: <https://gestra.vkp-portal.de>
- Log in to your user account.
- Select the objects you wish to test.
- In the VKP 42 portal app, click on the “Data Transfer” button.
- Enter your login details.
- Either select existing objects on the data collector to be deleted, or select a stored PDF document you wish to load.

The VKP 42 portal app is synchronised with the web app. The status is displayed during the process. When data transfer is complete, this is also shown on the screen.

If the “Data Transfer” button on the data collector is not yet enabled:

- Enable or set up a wireless or mobile phone connection on the data collector, to establish an internet connection. Preparations for data exchange are now complete.

Note



When the data collector is connected to the internet, data can be exchanged between the VKP 42 portal app and the web app.

Exporting test objects – Web app -> VKP 42 portal app

Test objects with a green icon in the status column are transferred to the VKP 42 portal app. After the data transfer, the icon turns yellow. If objects have been selected in the web app, data can still be transferred to the data collector if you are not logged into the web app.

Note



The order of a company's test objects in the web app determines the order of tests when data is transferred to the VKP 42 portal app. If the test objects in the web app are assigned to one or more testers, only this tester/these testers receive the selected test objects.

Importing test objects – Web app <- VKP 42 portal app

Only test objects that have been checked are transferred from the VKP 42 portal app to the web app.

These also include test objects created in the VKP 42 portal app and saved test objects from the quick check. Non-checked test objects are not transferred.

Deleting test objects from the VKP 42 portal app

As a rule, test objects are deleted automatically as soon as checked test objects are imported to the web app. Non-checked test objects remain in the VKP 42 portal app until the test of these objects has been performed and saved, or until they are selected for deletion during the data transfer.

To delete non-checked test objects from the data collector, you can check the “Delete non checked test objects on VKPN” button during the data transfer. Now, when the data transfer takes place, all checked objects currently in the data collector are transferred to the cloud and non-checked objects are deleted from the data collector.

Data Transfer

GESTRA

VKPN

VKPC

Please enter mail address :

Please enter password :

☐ Delete non checked test objects on VKPN

☐ load plant documentation

Continue

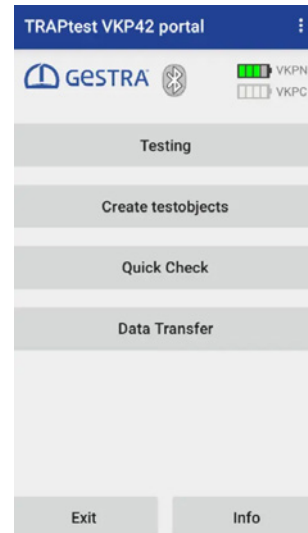
Performing steam trap tests with the VKP 42 portal app

Tests are performed with the VKP 42 portal app. You can edit prepared test objects in “Testing”. Alternatively, additional test objects can be checked by means of a quick check.

Normal check – Performing a test

To perform a normal check of test objects (steam traps), you must first create a company in the web app. You need to create all the necessary test objects in this company. A test can cover one or more test objects. During the test, you can add test objects and replace or edit a test object using the VKP 42 portal app.

- Click on the “Testing” button.
- Select the test object you require and start the test.
- In the company overview, you can select the required test using an NFC tag or QR code, if these have been set up in the web app.



Note

Only test results that are not yet available are saved. If a test object is checked twice in one day, the second test result is stored in the test object history. If the test object is checked using another data collector and then uploaded via data exchange, this test object may possibly be duplicated in the list. These two test objects can be distinguished from one another by their test date or time.

Creating test objects in the VKP 42 portal app

- Click on the “Create test object” button.
- Select the desired company or enter a new one.



Note

An easy way to select a company is by opening a listbox using the green button on the right. This shows companies already available in the web app, which are imported via “Data transfer” when synchronisation takes place for the first time.

- Select the details of the place of installation via “Plant, Plant section, Place of installation and Location”, or enter the information.
- Enter the steam trap model in the “Type designation” field and select the “Working Principle”.
- Enter further details about the test object.
- Save your entries.



Note

To be able to save a test object, you must fill in the Company, Plant, Plant section, Place of installation, Location, Working Principle and Type designation fields, as a minimum.

Editing or replacing a test object in the VKP 42 portal app

- Click on the “Create test object” button.
- If the object is identified as an existing object via the “Company, Plant, Plant section, Place of installation” fields, you can select whether to edit or replace this object.
- If you choose to edit an object, all the fields of this object can be edited.
- After these changes, you can save the object.
- If you replace an object, the data fields for the steam trap can be edited but the place of installation remains unchanged.
- After you have edited the steam trap, you can save the object.

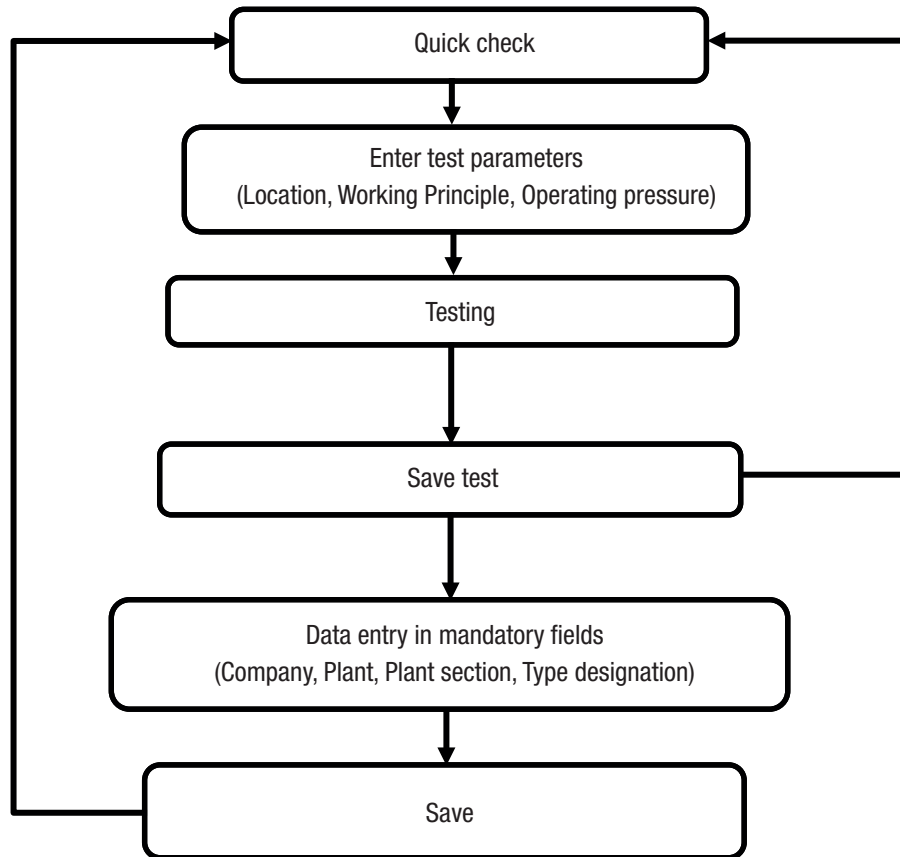


Note

If you edit or replace a test object, the changes made also take effect in the web app and are not reversible.

Quick check

Immediate check of a test object. Here, no test job needs to be produced, and therefore no company needs to be created. To save these checks once they have been performed, simply enter the additional data and save them as a new company, or save them in an existing company. These companies are saved following data transfer to the web app, and are subsequently deleted from the VKP 42 portal app.



Attention

If the quick check is not saved in the VKP 42 portal app, the test will no longer be available later on. In order to save the test objects, after the test you must fill in the Company, Plant, Plant section, Place of installation and Type designation fields. This procedure will spare you the task of entering the objects in the web app later on.



Note

If you wish to use these test results subsequently in an existing or new company, enter all the necessary data relating to the test objects. You can enter or complete this data in the VKP 42 portal app or in the web app.

- Click on the “Quick checks” button.
- Select the test object (Location, Working Principle, Operating pressure) in question and launch the test.
- Confirm the entries in the mandatory fields and save the test object.

Once it has been saved, the test object is saved as successfully checked in the “Test” tab, where you can view it.



Note

The next time data is transferred to the web app, the existing quick checks are imported and the companies created are deleted from the VKP 42 portal app. You can view the quick checks in the web app under the relevant companies.

Additional data

During a test, additional data (such as GPS coordinates, QR code, NFC tag or additional text) can be added in the VKP 42 portal app. This is possible with both a normal check and a quick check.

- Click on the “Additional Data” button.

Special company “z Sample”

This company already exists in the web app. This company provides an example of the data structure and designation in a company.

Using QR codes and NFC tags

The VKP TRAPtest app allows the use of NFC tags and QR codes to facilitate searches for test objects and the initial creation of a plant.

If an NFC or QR search mask has been set up for the company being tested, you can open the object to be tested in the TRAPtest app in the plant overview of a company or in the list of objects by scanning the QR code or NFC tag. To scan an NFC tag, all you need to do is hold it at the height of the camera on the back of the data collector.

To record a QR code or NFC tag of an object, you can scan it into the additional data of a test, so that the code/tag can then be assigned to a search mask in the cloud. This way, when the plant is tested again, the objects can be opened straight away using their codes.

Data backup

To prevent a loss of data due to large updates or the loss of equipment, transfer your test objects to the cloud and delete the remaining test objects from the data collector if the equipment is not going to be used for a longer period. The cloud performs regular backups, and therefore your data is safe here.

If you have also taken photos using the camera app and these are stored in the gallery, we recommend regularly backing these photos up onto an external device.

Extras

→ Extras tab

Manufacturer

Create, edit or delete manufacturers of test objects.

Attention

All manufacturers can be deleted, including those that have already been used.

- Create:
- To create a new company, click on the “Create” button.
 - Enter the name.
 - Confirm your entry.
- Edit:
- Change the manufacturer by double-clicking on the manufacturer in question, and confirm the corrected entry via the  icon.
- Delete:
- Delete a manufacturer by clicking on the manufacturer and on the  icon.

QR search mask

Create, edit or delete new QR search masks.

NFC search mask

Create, edit or delete new NFC search masks.

Settings

- Currency ■ Here, you can select or add any currency you wish.
- Units ■ Change units.

Attention

Units are not converted.

- Report options ■ You can choose various report layouts.

Tester

Create, edit or delete testers.

Attention

All testers can be deleted, including those that have already been used.

- Create:
- To create a new tester, click on the “Create” button.
 - Enter the name.
 - Confirm your entry.
- Edit:
- Edit a tester by double-clicking on the tester in question, and confirm the corrected entry via the  icon.
- Delete:
- Delete a tester by clicking on the tester and then on the  icon.

Language

- Select the language you require by double-clicking it in the language list.
- Your chosen language is now shown at the top of the list.



Note

If certain terms are not available in your chosen language, the English terms are used in the app.

Documents

Helpful documents

Information on the version number

The version number can be seen in the product information.

Evaluation logic table

Bimetallic, membrane (capsule), inverted bucket

Ratio Noise/temperature	Saturated steam temperature T _s									
	Not available				Available					
	≤ 40°C		≥ 40°C		≤ 40°C		40°C ≤ T _a ≤ 0.4 × T _s		0.4 × T _s ≤ T _a	
0 ≤ m ≤ LV	Cold		OK		Cold		BC		OK	
LV ≤ m ≤ MAX, below TV	FN: Yes	FN: No	–		FN: Yes	FN: No	FN: Yes	FN: No	–	
	Cold	Check	OK		Cold	Check	BC	Check	OK	
LV ≤ m ≤ MAX	FN: Yes	FN: No	FN: Yes	FN: No	FN: Yes	FN: No	FN: Yes	FN: No	FN: Yes	FN: No
Steam tracer	Cold	Check	FN	NOK	Cold	Check	BC	Check	FN	NOK
Steam line				Check						Check
Heat exchanger										

Ball float

Ratio Noise/temperature	Saturated steam temperature T _S						
	Not available			Available			
	≤ 40°C	≥ 40°C		≤ 40°C	40°C ≤ T _a ≤ 0.4 × T _S	0.4 × T _S ≤ T _a	
0 ≤ m ≤ LV	Cold	OK		Cold	BC	OK	
LV ≤ m ≤ MAX, below TV	Cold	OK		Cold	BC	OK	
LV ≤ m ≤ MAX	—	FN: Yes	FN: No	—	—	FN: Yes	FN: No
Steam tracer	Cold	FN	NOK	Cold	BC	FN	NOK
Steam line			Check				Check
Heat exchanger							

Thermodynamic

Ratio Operations, noise/temperature	Saturated steam temperature T _S							
	Not available			Available				
	≤ 40°C	≥ 40°C		≤ 40°C	40°C ≤ T _a ≤ 0.4 × T _S	0.4 × T _S ≤ T _a		0.9 × T _S ≤ T _a
f = 0, m ≤ TV	Cold	OK		Cold	BC		OK	
f ≤ LFO		OK			OK			
f ≥ LFO		NOK			NOK			
f = 0, m ≥ TV		FN: Yes	FN: No			FN: Yes	FN: No	
	Cold	FN	NOK	Cold	BC	FN	NOK	NOK

Evaluation logic table

Abbreviations

Abbreviation	Meaning
TV	Threshold value, below which the steam trap is sealed steam-tight.
LV	Mean noise limit value
m	Mean noise
LFO	Limit frequency of operations per minute
f	Operations, opening/closing cycles
T _a	Temperature measured at test object
T _s	Saturated steam temperature (calculated from operating pressure)

Test results and recommended action

Test result	Meaning	Cause	Recommended action
OK	In working order The steam trap shows no loss of steam. No bank-ing-up of condensate was detected.	—	None.
NOK	Loss of steam The steam trap shows a loss of steam. With the GESTRA TRAPtest app, you can calculate the amount of steam loss and CO ₂ emissions.	Steam trap does not close fully, controller is worn.	Repair or replace the equipment.
		Dirt, rust, deposits or particles are preventing full, steam-tight closure.	Clean, repair or replace the equipment.
BC	Banking-up of condensate The measured temperature is much lower than the target temperature. This is probably due to unwanted banking-up of condensate.	Differential pressure at the equipment is too low or even negative. If the upstream pressure (steam side) is lower than the back pressure (condensate side) and no non-return valve is used, condensate can flow back through the steam trap into the steam system.	Increase the upstream pressure, discharge the condensate into a condensate line at a lower pressure. Use a non-return valve downstream of the steam trap if operating conditions involve intervals with a negative differential pressure.
		Damaged or worn controller.	Repair or replace the equipment.
		Dirt or deposits are adversely affecting the equipment.	Clean the equipment and dirt trap or replace the equipment.
		The condensate temperature is much lower than the saturated steam temperature (extreme supercooling of condensate).	None.
Cold	Cold The measured surface temperature of the equipment is below 40 °C.	Process/equipment is not in operation.	None.
		Equipment is shut off.	Open stop valves and check that the condensate line of the equipment is in good working order.
		Differential pressure at the equipment is too low or even negative. If the upstream pressure (steam side) is lower than the back pressure (condensate side) and no non-return valve is used, condensate can flow back through the steam trap into the steam system.	Increase upstream pressure, discharge into condensate line with lower pressure. Use a non-return valve downstream of the steam trap if operating conditions involve intervals with a negative differential pressure.
		Damaged or worn controller.	Repair or replace the equipment.
		Dirt or deposits are adversely affecting the equipment.	Clean the equipment and dirt trap or replace the equipment.
		Low condensate temperature due to the type of drainage process, e.g. draining a gas pipe (compressed air, N ₂ , fuel gas) with a UNA Simplex ball float steam trap.	None.

Test results and recommended action

Test result	Meaning	Cause	Recommended action
FN	Foreign noise The test result is adversely affected by foreign noise. The condition of the steam trap cannot be clearly assessed.	The ultrasonic signal is distorted by other components, e.g. turbines, pumps, valves, steam traps.	Use an additional, suitable test procedure to assess the equipment status and determine the temperature profile and pressure on the steam side.
		Condensate flowrate or differential pressure is too high, test curve is far above limit value or even at the max limit of the ultrasonic scale (seen as a flat line without any variations of signal).	Practice preventive maintenance at reasonable intervals.
Check (for the "Heat exchanger" location only)	Check required The equipment test produced a high ultrasonic signal.	A high ultrasonic signal was measured, which with a high probability is not caused by loss of steam. A high ultrasonic reading in the test is provoked by a very high condensate flowrate or very high differential pressure.	If the steam trap is discharging a large volume of condensate or is working with high differential pressure (>20 bar/300 psi), no action is required. Use an additional, suitable test procedure to assess the equipment status and determine the temperature profile and pressure on the steam and condensate sides. Practice preventive maintenance at reasonable intervals.
Comment	Comment on the test object Comments are identified by a preceding "_", e.g.: _Test object removed _Gasket not OK.	A comment was added for the test object during the test. With some comments, an additional test is possible. The test curve is used solely for documentation, not for showing the results.	Take action as per the comment.

Troubleshooting

Error identification

The following options are available for analysing and eliminating the causes of errors.

- **Error messages:**
These contain information on errors. This information, or a screenshot, can be used for troubleshooting.
- **Data transfer between the web app and the data collector:**
 - Check that your data collector has an internet connection.

Troubleshooting table

Logging off and on again can often help with problems, e.g. if settings or the language have been changed.

Error	Cause	Action
After the Excel® upload, the message: “... xx objects of yy objects imported” appears	Status message on the import of test objects. This message is shown every time an Excel® upload takes place	Note: Test objects that are already present are not imported again. Test objects with a different core designation are recognised as new and added to the company. Changes to optional test object data are therefore not included in an import.
No data is transferred between the VKP 42 portal app and the web app.	The data collector is not connected to the internet.	Enable WiFi on the data collector or set it up via Tools/Settings/WiFi Settings.
	The serial number of the data collector is not assigned to the primary user or the user.	In the user list in the web app, check whether a serial number has been entered. Create the device or send the serial number and the name of the primary user to GESTRA Technical Support. They will enter the device for you.
	The test objects have different definitions in the VKP 42 portal app and in the web app.	Make sure that the test objects on the data collector and in the web app have identical definitions. It could be that a test object was changed on the data collector, and this has not yet been synchronised with the web app.
	Data transfer to the web app is not possible due to a time access problem.	Attempt data transfer again.



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