GESTRA TRAP*test* VKP

Software Operating Instructions

Version 3.2xx

EN

English

Original Operating Instructions

819606-02

Contents

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TRAP*test* VKP

PC Software for evaluating and documenting steam trap tests with the GESTRA TRAP*test* VKP system.

1. Compatibility

Data collector
VKP 40 (Ex) firmware versions 3.4 and 3.5
VKPN 40plus (Ex)
VKPN 41plus (Ex)

Data
TRAP*test* VKP, version 3.0, import from *.VKP and *.XLS(97-2003) files

2. Installation instructions

- Back up the data before uninstalling an older version, ⚠️because data from previous installations are not kept.
- Earlier versions of TRAP*test* VKP must be uninstalled beforehand via the Windows Control Panel.
- Connect the VKPN 41*plus* / VKPN 41*plus* Ex data collector to a USB port on the computer using the supplied data cable.
- The installation file is a .zip file on the data collector in the folder "*Computer\Smart-Ex (2)01\Internal memory\VKP41*"
  Copy the file to a user folder on the Windows PC/laptop, not onto the Desktop, and unzip it.
  ⚠️ Pay attention to the information in the README.txt.
  Leave the VKPN 41*plus* data collector connected to the PC, to ensure the right USB driver is installed correctly. If you are using a VKP 40 or VKP 40plus data collector, this does not need to remain connected during installation.
- Click **setupw.exe** to begin installation.
  Complete installation consists of several parts:
    - USB driver (required for VKPN 41plus data collector)
    - DotNet Framework
    - Database software (MS SQL Server 2014 Express LocalDB),
    - MS Mobile Device Center (only required for communication with VKP 40plus devices)
    - TRAP*test* VKP software
- Following successful installation, you can set the desired language in "Tools/Settings".

- Before you work with this program, you must select metric or US units. →Tools/Settings menu.
  ⚠️ Conversion does not affect existing data; temperature and pressure from existing data are not converted.

3. First steps

There are two options for checking test objects (steam traps):
-Normal check, prepared on the computer, organised by test jobs
-Quick check, no preparation on computer required

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3.1. Normal Check

Create company, create test object, create test job	Export	Checking	Import	Evaluation
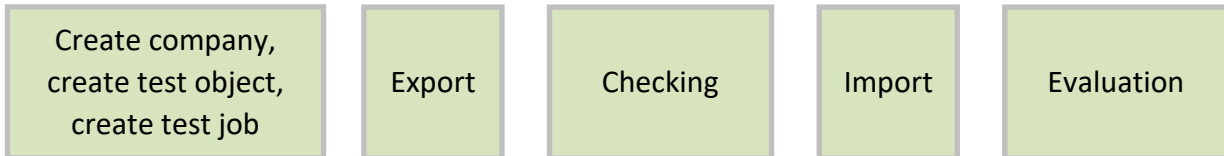
ℹ To perform a normal check on test objects (steam traps), you must first create a company in the TRAP*test* VKP software. In this company, create all the necessary test objects and one or more test jobs. Test jobs contain the test objects that are to be checked.

3.2. Quick Check

„z Import Company"

Select test parameters, checking	Import (optional)	Assign to company, evaluation (optional)
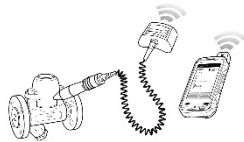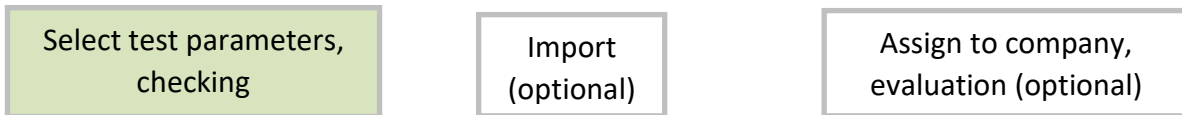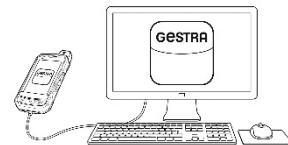
ℹ In the quick check, a test object (steam trap) can be checked immediately. The test results can be transferred to the computer and the data further processed.

3.3. Check Settings

⚠ Select the units, interfaces and further settings options before working with the software, to prevent errors.
→Tools/Settings menu.

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3.4. Adjust Language of Data Collector (VKPN)

Goto Tools/Settings/Language and select the desired language. If the selected language is not available in the VKP 41 software, English will be used.

3.5. Data collector (VKPN) settings on first data transfer

USB debugging must be enabled in order to verify the connected PC/laptop the first time data are transferred.

After this, data transfer must be restarted.
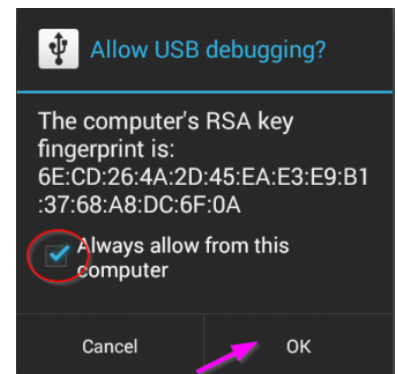
If you are asked to enter a password for a Bluetooth connection, enter "1234".
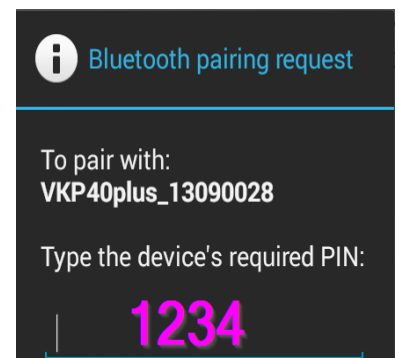
4. Building up companies

Companies are databases containing all details on test objects, test jobs, testers, results and evaluations.

4.1. General hierarchical layout

The Address of a test object is completely and unambiguously described by:

Company   Plant   Plant Section   Place of Installation
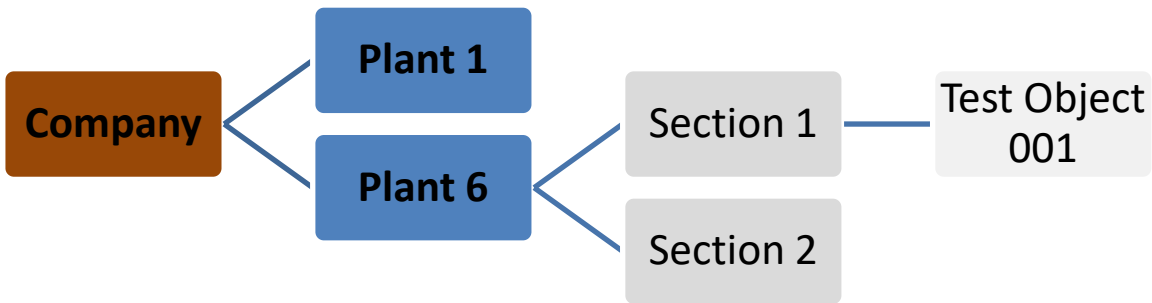
4.2. Resulting spatial layout of "z Sample" company

Example of ideal route during the check, thanks to clever numbering.

4.3. Tabular layout of "z Sample" company

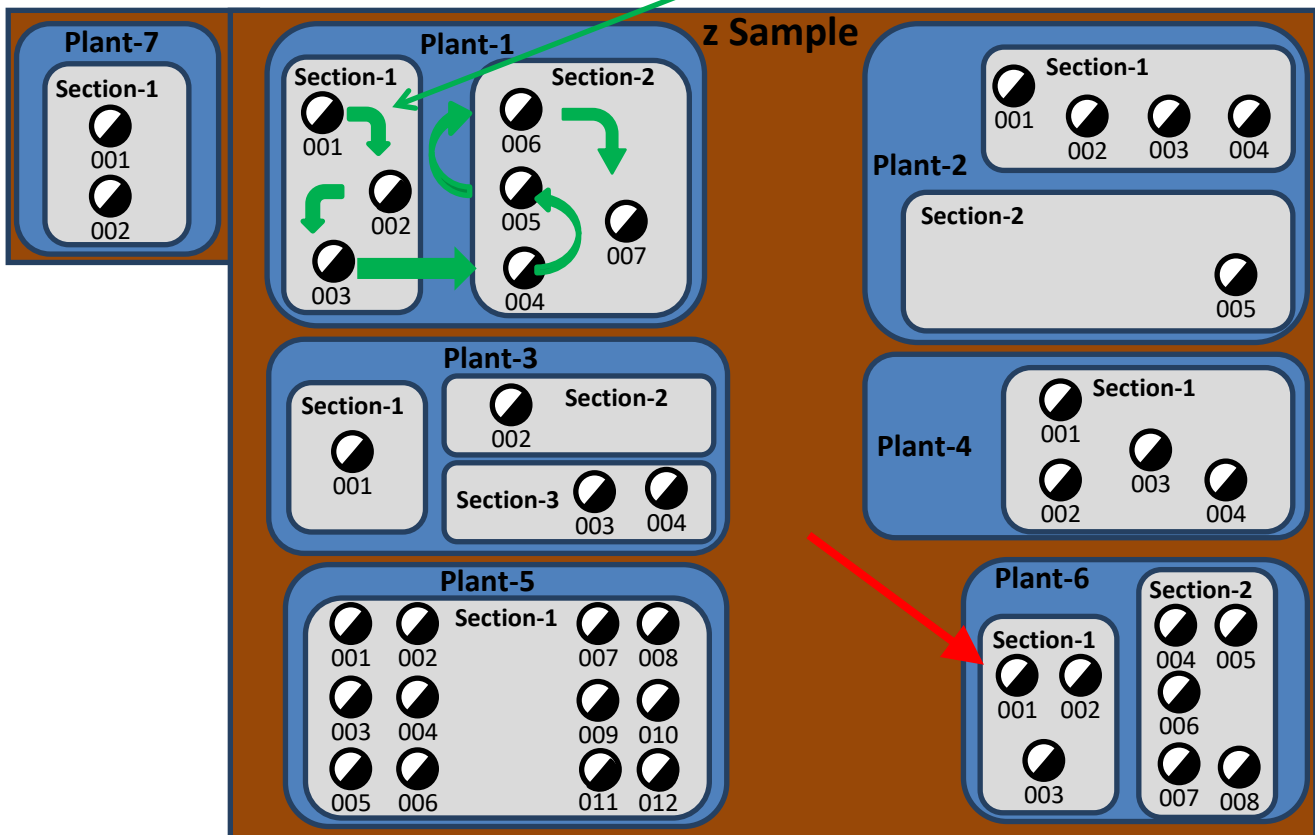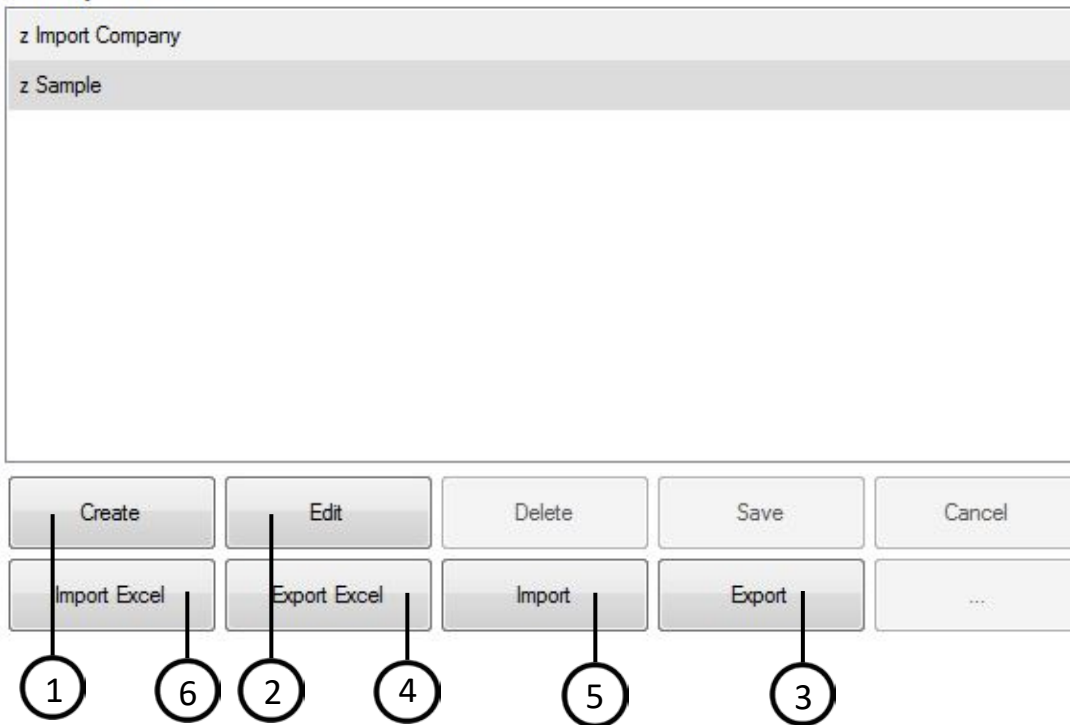| Company	Plant	Plant Section	Place of Installation
z Sample	Plant-1	Section-1	001
z Sample	Plant-1	Section-1	002
z Sample	Plant-1	Section-1	003
z Sample	Plant-1	Section-2	004
z Sample	Plant-1	Section-2	005
z Sample	Plant-1	Section-2	006
z Sample	Plant-1	Section-2	007
z Sample	Plant-2	Section-1	001
z 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

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5. Companies - Data processing

Companies

z Import Company
z Sample

Create	Edit	Delete	Save	Cancel
Import Excel	Export Excel	Import	Export	...
①	⑥ ②	④	⑤	③

5.1. Companies

① Creates a new company.

② Renames the existing company.

5.2. Data backup

③ Saves a complete company along with all test objects, test jobs, testers, test results and test curves.

5.2.1. Excel® export

④ Saves the most important data, test objects and most recent test result as an Excel file.

5.3. Incorporate data

⑤ Creates a complete company from the backup file.

5.3.1. Excel® import

⑥ Imports the most important data and test objects into an existing company.
The Excel® file must have the same format as the Excel® file from the Excel export.
New test objects are added, existing test objects are not imported.

ⓘ To ensure you use an Excel® file with the correct format:

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Either change an existing file or create the new company with a test object, then perform the Excel® export and adapt the content in this file.

Note the following for the columns:

A-F must be present

⚠️ **G, H** contain formulas, **do not overwrite them!**

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

I, J are not imported

K is optional. A pressure is entered here, so the operating temperature of the test object is included in the results analysis during 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

ℹ️ Max. 5,000 test objects (rows) are permitted

5.4. Add new steam trap types

5.4.1. Via Test Objects in the "Type designation" input field

⚠️ To make sure that no unnecessary new designations are created, please always search for the desired type in the "Type designation" field.

1. Create a new test object in the desired company.
2. Enter your desired steam trap designation in the "Type designation" field.
3. Select the function type and manufacturer.
4. Enter further details about the test object.
5. To finish click Save.

5.4.2. Using Excel®

1. Open the table that was received via Excel export.
2. Add the manufacturer to the "Manufacturer" table if this is missing.
3. Add the desired type in column A of the "Steam Traps" table, add to columns B + C via dropdown and sort if necessary.
4. The new type is now available in the dropdown list in column F of the "VKP Test objects" table, in the order entered in 2.

5.5. Data transfer between PC and data collector

1. Set the data collector you are using in the "TRAP*test* 3.1" software:
   → Tools\Settings\Data Collector
   Only applies to VKP 40*plus*:
   USB port. MS Mobile Device Center must be installed.
   Only applies to VKP 40:
   Serial interface must be selected.
2. Connect the data collector to the PC via the data cable.
3. Execute "Data transfer" on the data collector.

6. Test Objects

1. Toggle between the list of test objects and a detailed view of individual test objects. Double-clicking on a test object in the list is also possible.
2. Alphabetical sorting and column width adjustment are possible. Filter width is adjusted on restart.
3. Filters can be selected.
4. Automatically create individual test jobs for each plant/plant section combination from all visible test objects (note filter) in the table.
5. Create a test job from all visible test objects (note filter) in the table.
6. Create a test object.
7. Detailed view of the test object.
8. Results of tests performed on the selected test object.
9. Print object list, various report forms can be selected. →Tools/Settings
10. Delete selected test object.
11. Calculate loss of steam.

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

⚠️ This designation may only occur once in each company.

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

⚠️ 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.

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7. Test Jobs

Create test jobs in the Test Objects menu or Test Jobs menu.

They can be managed in the Test Jobs menu.

One test job contains at least one test object, but may contain max. 2500 test objects.
The max. number of test jobs is also 2500.

ⓘ <u>Not</u> available in the "z Import Company" special company.

7.1. Export Test Jobs from PC to Data Collector.
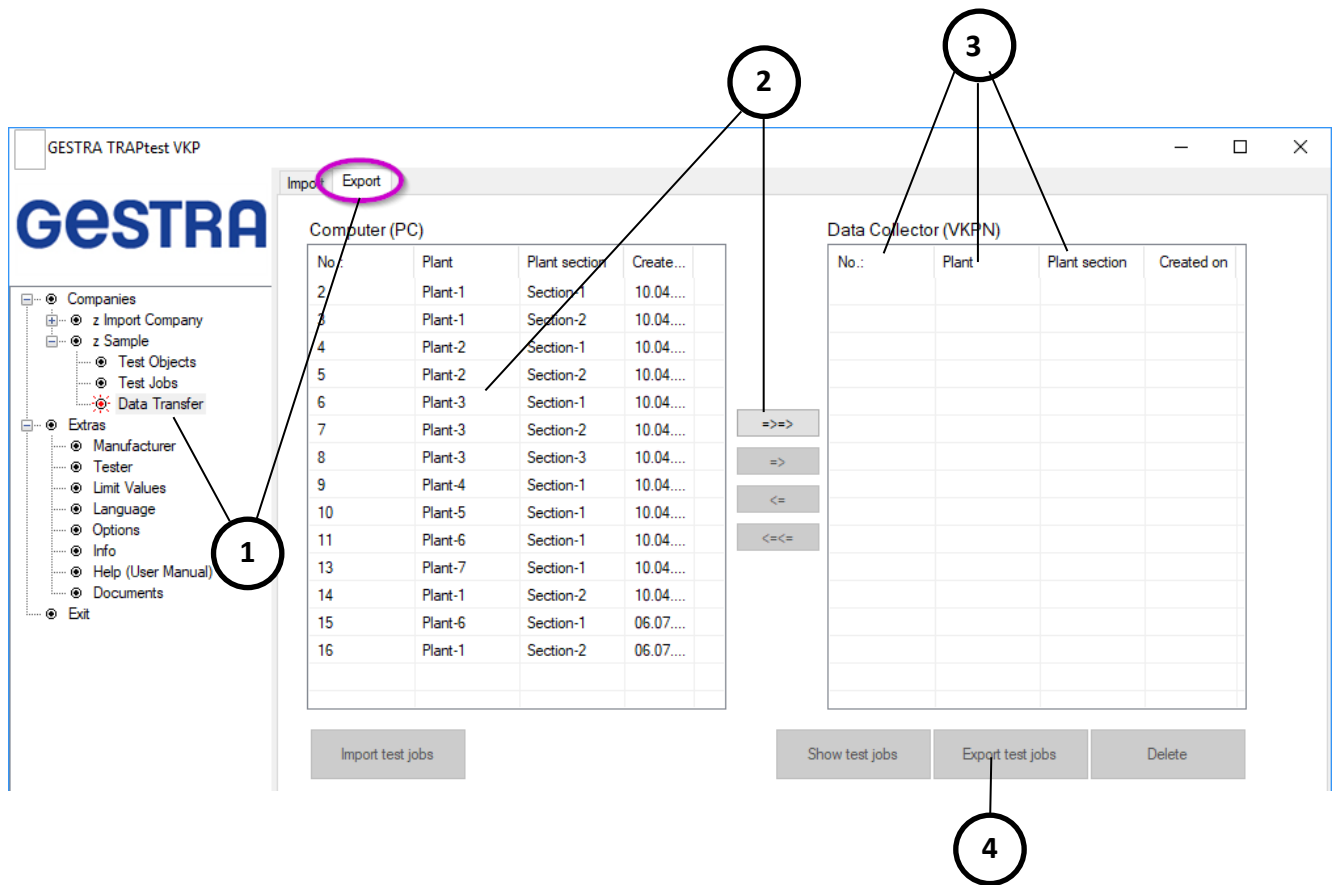
⚠ Before transferring data, start the data transfer on the data collector and check the settings →Tools/Settings.

① Navigate to the "Data transfer" of the desired company, and select the "Export" tab here.

② [=>] [=>=>] Select test jobs and move them to the other window using these function keys. Alternatively, double-click a test job. Use Ctrl + Select to mark several test jobs.

③ Sort the selected test jobs,
ⓘ sorting by no. is recommended.

④ Export the selected test jobs to the data collector.

7.2. Import Test Jobs from Data Collector to PC

⚠️ Before transferring data, start the data transfer on the data collector and check the settings →Tools/Settings.

① Navigate to the "Data transfer" of the desired company, and select the "Import" tab.

② View the test jobs on the connected data collector.

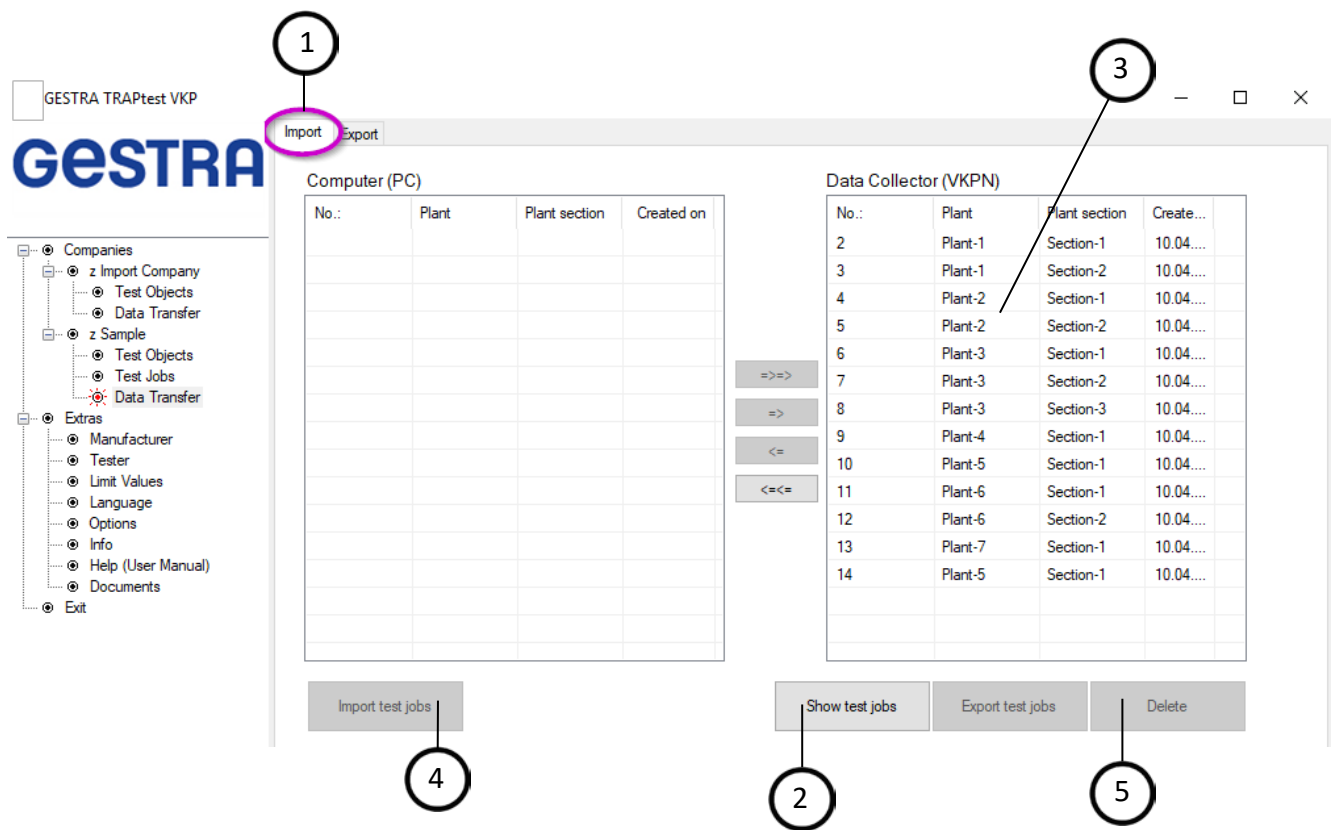③ [<=] [<=<=]   Select test jobs and move them to the other window using these function keys. Alternatively, double-click a test job. Use Ctrl + Select to mark several test jobs.

④ Import the selected test jobs from the data collector.

ℹ️ Data transfer of test job 9999 can only take place in the "z Import Company" special company. Quick checks are stored in test job 9999.

7.3. Delete Test Jobs on Data Collector

⑤ Repeat steps 1-3 continue with step 5 to delete the selected test jobs.

8. Testing steam traps

ℹ️ To perform a normal check of test objects (steam traps), you must first create a company in the TRAP*test* VKP software. In this company, create all the necessary test objects and one or more test jobs. Test jobs contain the test objects that are to be checked. This is not absolutely necessary if you are testing test objects using the quick check. →Steam trap test, →"z Import" special company.

You can select the following on the data collector (VKPN) to check test objects:

8.1. Test jobs

These must be created in advance and exported to the data collector.

After the contained test objects have been checked, the partially or fully completed test jobs are exported. Missing tests from a test job can also be completed after export, and the test job can then be exported again.

ℹ️ Only test results that are not yet available are copied to the relevant company. If a test object from the same test job is checked a second time in one day, the first test result is overwritten. However, test results from a test object which are obtained on the same day and come from different test jobs are presented as separate test results with the same date (they cannot be sorted by time).

8.2. Quick check

Immediate check of a test object. Here, no test job needs to be produced, and so no company needs to be created. Checks performed in this way are saved and then assigned a serial number, and saved in the test job with number 9999. They can be imported to the "z Import Company" special company.

ℹ️ If you wish to use these test results subsequently in a company, compile all the necessary data on the test objects. You can find forms for compiling these data in the →Tools/Documents menu.

9. "z Import Company" special company

This company is already available when the TRAP*test* VKP software is installed.
Here, you can import:
- Test jobs from unknown companies
- Test jobs from known companies – these are copied directly to the companies
- Quick checks, test job number 9999

Test objects from imported test jobs can be assigned to an existing test object of a company.

ℹ️Test objects from quick checks can be subsequently copied to a company. To do this, first create a company with all the desired test objects, then individually assign the test objects. For this assignment, you can select a company. The operating principle is then compared, and only test objects with the same operating principle are available for assignment.

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10. "z Sample" special company

This company is already available when the TRAP*test* VKP software is installed.
This company provides an example of data structure and designation in a company.

11. Tools menu

11.1. Manufacturer

Create, change or delete manufacturers of test objects.

⚠️ You can only delete manufacturers that are not used in any company.

11.2. Tester

Create, change or delete testers.

⚠️ You can only delete testers that are not used in any company.

11.3. Limit Values

Display limit values for the individual function types.
For "Thermodynamic", the value is the limit frequency of operations (per minute); all other values are sound limit values (based on the sound scale of the data collector).

11.4. Language

Select the desired (active) language by clicking the language in the window.

Setting up a new language.

ℹ️ If fields are blank, i.e. without content (blank spaces), English is used, ensuring that text is always displayed in the software.

ℹ️ Terms from "English" are used for blank fields

Changing the languages in a language table.

ℹ️ You cannot change an active language in the table, only inactive ones.

ℹ️ Always complete your entry in a field by pressing Enter.

Export, Import

Select all languages or an individual, currently active language.

ℹ️ Change individual pieces of text by right-clicking, if this option is enabled.
→ Tools/Settings/Miscellaneous.

11.5. Settings

Serial Interface

- COM 1 or COM 3 for connecting the VKPN 40 (Ex) data collector.
- Serial interface COM 4 or higher for connecting the VKPN 40 (Ex) data collector with serial USB adapter.

  ⚠️If you are using a serial USB adapter, e.g. GESTRA mat. no. 52480, it is essential to install the supplied driver.

- ℹ️ For the VKPN 40plus (Ex) or VKPN 41*plus* (Ex) data collector, the serial interface settings are <u>not</u> relevant.

Miscellaneous

- Print graphics in high resolution to improve the quality of test curves and reports.
- Edit the designation by right-clicking directly on the text that you wish to edit.
- Database compression reduces the volume of data after a company has been deleted.

Units

- Conversion of units. ⚠️ There is no conversion.

Report Option

- Various report layouts can be selected, modified or produced.

Data Collector

- The correct data collector must be selected.

Currency

- Here, you can select or add any desired currency.

Maintenance

- Import/export steam trap database, perform VKP 40 data collector firmware update, save error log, restore display settings.

11.6. Info

Software version number

11.7. Help

Operating instructions

11.8. Documents

Helpful documents

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12.Test results and recommended actions

Test Result	Meaning	Cause	Recommended Action
OK	**OK, works fine** The steam trap shows no loss of steam. No banking-up of condensate was detected.	--	None.
Defective	**Steam loss** The steam trap under test is showing a loss of steam. With GESTRA TRAP*test* software the amount of steam loss and CO2 emissions may be calculated.	Steam trap is unable to close tightly, regulator is worn.	Repair or exchange steam trap.
		Dirt, rust, deposits or particles prevent steam trap from closing steam tight.	Clean, repair or exchange steam trap.
BC	**Banking-up of condensate** The measured temperature lies considerably below the expected temperature. The steam trap is likely to bank-up condensate.	Differential pressure is too small or even negative. Backflow of condensate into steam system occurs if upstream pressure (steam side) is lower than back pressure (condensate side) and no check valve is used.	Increase upstream pressure, discharge into condensate line with lower pressure, Use check valve downstream of steam trap if operating condition includes intervals with negative differential pressure.
		Damage or wear of regulator	Repair or exchange steam trap.
		Steam trap is impaired by dirt or deposits.	Clean steam trap and strainer or exchange steam trap.
		Condensate temperature is considerably lower than saturation temperature (high subcooling of condensate).	none.
Cold	**Cold** The measured steam trap temperature is below 40°C.	Process/steam trap is not in operation.	none.
		Steam trap is isolated.	Open isolation valves and check for proper drainage function of steam trap.
		Differential pressure is too small or even negative. Backflow of condensate into steam system occurs if upstream pressure (steam side) is lower than back pressure (condensate side) and no check valve is used.	Increase upstream pressure, discharge into condensate line with lower pressure. Use check valve downstream of steam trap if operating condition includes intervals with negative differential pressure.
		Damage or wear of regulator.	Repair or exchange steam trap.
		Steam trap is impaired by dirt or deposits.	Clean steam trap and strainer or exchange steam trap.
		Condensate temperature is low due to drainage process , e.g drainage of gas lines (compressed air, N2, fuel gas) with UNA simplex float steam trap.	none.

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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.	Ultrasonic noise pollution coming from other components, e.g. turbines, pumps, valves, steam traps.	Consider further measurements such as upstream temperature gradient and working pressure to evaluate the status of the steam trap. Apply preventive maintenance in adequate intervals.
		Condensate flow rate or differential pressure is too high, measuring curve is far above limit value or even at the max limit of ultrasonic scale (seen as flat line without any variations of signal).	
Check (For location Heat Exchanger only)	**Check required** The test of the steam trap delivered a high ultrasonic sound value.	A high ultrasonic sound value was measured that is not necessarily caused by loss of steam. The high ultrasonic sound value of this measurement most likely is derived from high condensate flow rate or high differential pressure.	No action required if steam trap works on high condensate flow rate or high differential pressure (>20 bar/300 psi). Further measurements may be considered to give additional information on steam trap condition, e.g. upstream temperature gradient and working pressures (upstream and downstream). Apply preventive maintenance in adequate intervals.
Comment	**Comments on the tested object,** Comments are prefixed with _, e.g. _Defective gasket, _Incorrect designation.	The test object was provided with a comment during the test. With some comments, there may be a measurement curve that was made subsequent the comment, this curve is for comment purposes only.	Consider actions according to the comment made.

Bimetallic, Membrane (capsule), Inverted bucket

Noise/Temperature Ratio	not available ≤40°C	not available >40°C	available ≤40 °C	available 40°C<Ta<0.4×Ts	available 0.4×Ts≤Ta
0 ≤ m ≤ LV	cold	OK	cold	BC	OK
LV ≤ m ≤ MAX, noise below TV	FN: yes → cold; FN: no → check	– (OK)	FN: yes → cold; FN: no → check	FN: yes → BC; FN: no → check	– (OK)
LV < m ≤ MAX — Steam tracer / Steam line	FN: yes → cold; FN: no → check	FN: yes → FN; FN: no → defective	FN: yes → cold; FN: no → check	FN: yes → BC; FN: no → check	FN: yes → FN; FN: no → defective
LV < m ≤ MAX — Heat exchanger	FN: yes → cold; FN: no → check	FN: yes → FN; FN: no → check	FN: yes → cold; FN: no → check	FN: yes → BC; FN: no → check	FN: yes → FN; FN: no → check

Ball float

Noise/Temperature Ratio	not available ≤40°C	not available >40°C	available ≤40 °C	available 40°C<Ta<0.4×Ts	available 0.4×Ts≤Ta
0 ≤ m ≤ LV	cold	OK	cold	BC	OK
LV < m ≤ MAX, noise below TV	cold	OK	cold	BC	OK
LV ≤ m ≤ MAX — Steam tracer / Steam line	cold	FN: yes → FN; FN: no → defective	cold	BC	FN: yes → FN; FN: no → defective
LV ≤ m ≤ MAX — Heat exchanger	cold	FN: yes → FN; FN: no → check	cold	BC	FN: yes → FN; FN: no → check

Thermodynamic (disc)

Ratio frequency of operations, noise / temperature	not available ≤40°C	not available >40°C	available ≤40 °C	available 40°C<Ta<0.4×Ts	available 0.4×Ts<Ta<0.9×Ts	available 0.9×Ts≤Ta
f = 0, noise below TV	cold	OK	cold	BC	OK	OK
f < LFO	cold	OK	cold	OK	OK	OK
f ≥ LFO	defective	defective	defective	defective	defective	defective
f = 0, m ≥ TV	cold	FN: yes → FN; FN: no → defective	cold	BC	FN: yes → FN; FN: no → defective	defective

14.Abbreviations

Abbreviation	Meaning
TV	Threshold value ….Value below which the steam trap is closed steam-tight.
LV	Limit value …..Limit for the mean sound value
m	Mean sound value
LFO	Limit frequency of operations per minute
f	Strokes, opening/closing cycles
Ta	Temperature measured at test object
Ts	Saturated steam temperature (calculated from service pressure)

15.Troubleshooting

15.1.   Error identification

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

1. **Error messages:**
   These contain information on the error,
   this information, or a screenshot,
   can be used for debugging.

2. **For data transfer between PC/laptop and data collector:**
   →Select Tools/Options/Save file. Select the storage location.
   With each data transfer, a file is then saved that can
   be used for debugging.

3. **TRAP*test* software event log**:
   →Tools/Options/Maintenance, click Save Log and save the file.
   A VKPEventlog file is saved,
   which can be used for debugging.

4. **Windows Event Log:**
   →Enter Eventvwr.exe in the Windows command prompt field,
   →Windows Logs/Application
   →Right-click / Save all events in
   →Enter filename and save file as *.evtx
   A Windows Event Log file is saved,
   which can be used for debugging.

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15.2. Troubleshooting table

Restarting the program can often help with problems, e.g. if settings or the language have been changed.

Error	Cause	Action
Installation problems	Operating system files, old Dot.net version, version < 4.6.2.	Perform Windows updates. Install the necessary Dot.net version 4.62 from the TRAP*test* installation file.
Error message on startup: "VKP50UIFramework is not reacting"	Database error when reading	Close the program then restart it. If the error persists, use the Windows Control Panel to uninstall: "MS SQL Server 2014 Express LocalDB", then reinstall the local DB from the e TRAP*test* installation file.
After Excel® import, this message appears: "… xx objects imported, yy objects not imported	Status message on the import of test objects. This message is shown with every Excel® import	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 are transferred between the data collector and the computer.	The data collector is not properly connected to the computer.	Connect the data collector to the computer via the associated data cable.
	Incorrect interface or data collector settings	Adapt settings in the Tools menu.
	Necessary drivers or software are not correctly installed	Correctly install the necessary drivers or software, e.g. install Windows Mobile Center (only required for VKP 40plus) from the TRAP*test* installation file.
	VKP 41*plus*: USB driver not correctly installed	Connect the VKPN 41*plus* data collector, make sure that the data collector is recognised in Windows, then repeat the installation of the TRAP*test* software/USB driver.
	The software on the data collector and on the computer is not compatible.	Make sure that the programs on the data collector and on the computer are compatible. Contact the manufacturer.
	The wrong company is selected on the computer for data transfer. A message to this effect is shown on the computer.	In "z Import Company", check the test jobs that are saved in the data collector. Select the correct company. If necessary, import the tests to "z Import Company".
	Test jobs in the data collector and test jobs on the computer have different definitions.	Make sure that the test jobs on the data collector and on the computer have identical definitions. Do not change any test jobs once they have been exported to the data collector. If necessary, import the tests to "z Import Company".

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