



Objective steam trap testing made easy

With the VKP 42 / VKP 42 Ex



Engineering steam performance

Optimise your systems with the VKP 42 / VKP 42 Ex

Benefit from GESTRA's decades of experience with our ultrasonic tester for steam traps and condensate systems.

Ensure system availability

Steam traps are a part of the overall production system. If one or more steam traps fails, this reduces a production plant's availability, and individual subsystems may even grind to a halt. Regular testing of steam traps with the VKP 42 or VKP 42 Ex enables you to ensure optimum availability for your production system.

Maintain product quality

For perfect end products, functioning steam traps are indispensable.

In complex processes, blocked steam traps lead to the immediate production of rejects. Regular testing of steam traps with the VKP 42 or VKP 42 Ex ensures product quality you can count on.

Cut costs

When steam is used in production, costs are incurred for fuel, water and treating the water. Today, keeping an eye on CO₂ emissions from furnaces is increasingly important, and the costs of this can currently only be guessed at. However, if a steam trap is not working correctly and the generated steam escapes unused into the open air, normal operating costs shoot up.



The advantages of the VKP 42 / VKP 42 Ex

- Normal and quick check
- Database suitable for over 20,000 test objects
- Automatic calculation of CO₂ emissions
- Extensive data import and export feature
- Large choice of adaptable report forms

Data collector

- Very bright, capacitive 5" multi-touch colour display for reliable operation even with wet fingers or gloves
- Automatic language adaptation for over 20 languages
- Can store up to 2,500 test objects
- Camera feature
- Protection IP 68
- VKP 42 Ex for potentially explosive atmospheres



VKP 42 (Ex):
Data collector, measuring
transducer and Com box

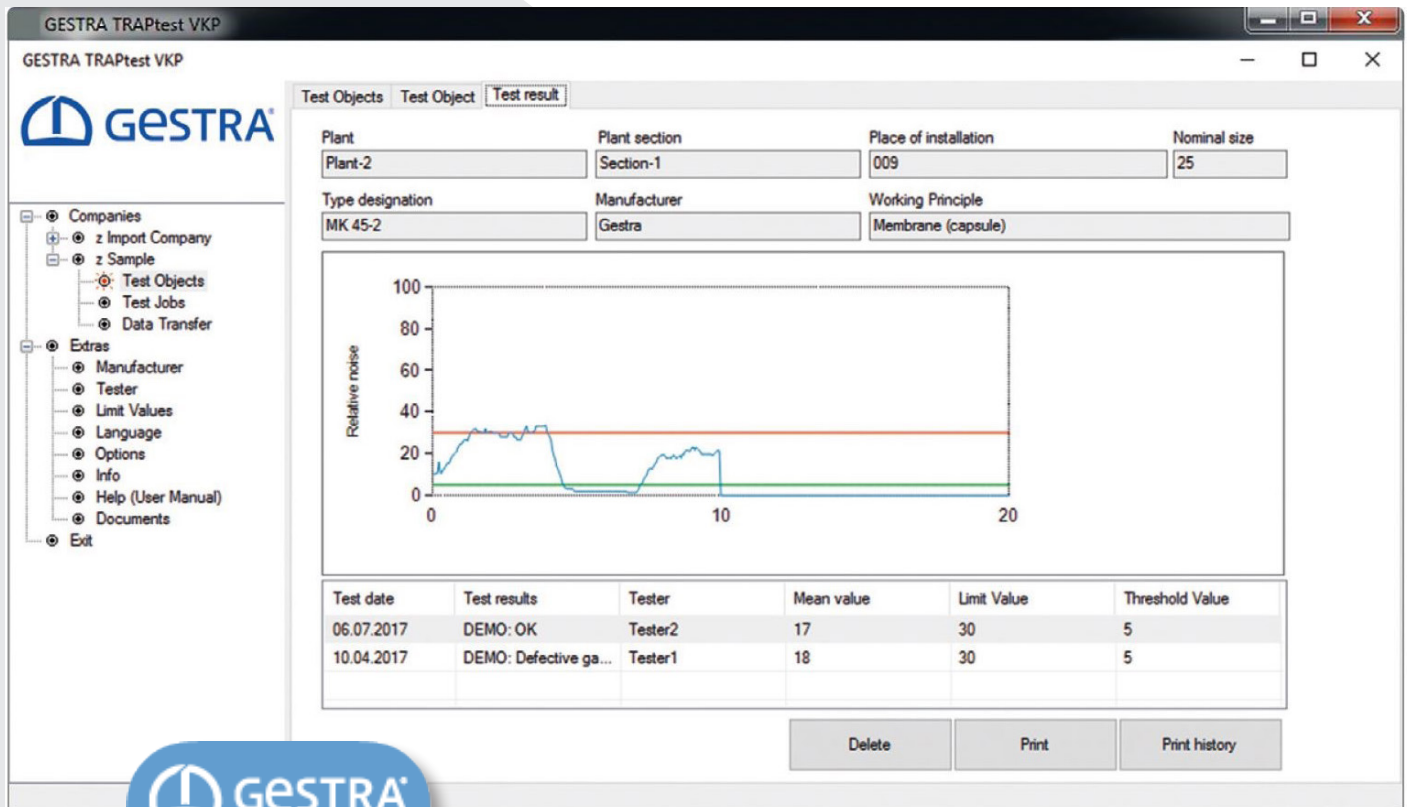


TRAPtest VKP – The evaluation application designed to suit your needs.

VKP 42 local

The proven single-user application for installation on a local PC.

PC application VKP 42 local:
Test results of an intact steam trap without loss of steam



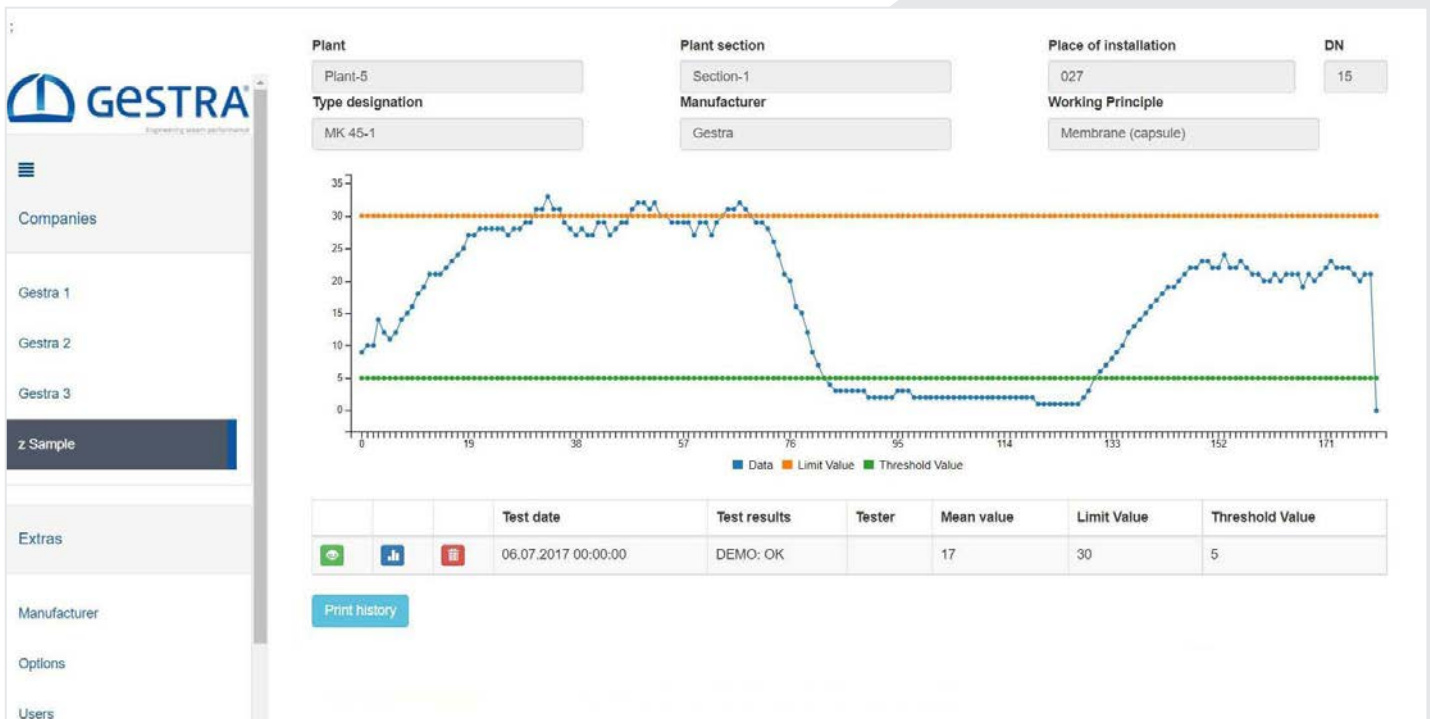
Evaluation application TRAPtest VKP local

- › Supports MS-Windows®10
- › Downward compatible with its predecessor VKP 41plus
- › Proven software tool
- › Intuitive operation

VKP 42 portal

The new cloud-based evaluation application with flexible access from any location. Powerful, hardware-independent WEB application for the IT of tomorrow.

*Web application VKP 42 portal:
Test result of an intact steam trap without loss of steam*



Evaluation application TRAPtest VKP portal

- › Browser based cloud application
- › Access from everywhere
- › Extended range of functions
- › Intuitive operation

Exploit potential savings

In test with the VKP 42 or VKP 42 Ex, steam traps that no longer close correctly and waste money are detected.

Web application VKP 42 portal:
Cost calculation



Engineering steam performance

Companies

Gestra 1

Gestra 2

Gestra 3

z Sample

Extras

Manufacturer

Options

Users

Quantity:
42

Checked:
35 (83 %)

Defective:
6 (14 %)

OK:
23 (55 %)

Banking-up
Condensate (BC):
2 (5 %)

Foreign Noise (FN):
1 (2 %)

Cold:
1 (2 %)

Check:
1 (2 %)

Comment:
2 (5 %)

Steam loss
22,0 kg/h

Calculation

Steam costs
30
EUR / 1000 kg

Annual operating hours
8000
h

Steam loss
176000
kg/a

Total
5280
EUR/a

CO2 emissions
28160
kg/a

Report

Calculate

The following example shows how the cost of faulty steam traps that lose steam can add up over the course of a year:

Cost of steam generation: 30 euros per ton; operating hours: 8000 hours p.a.;
loss of steam per steam trap: 3 kg/hour

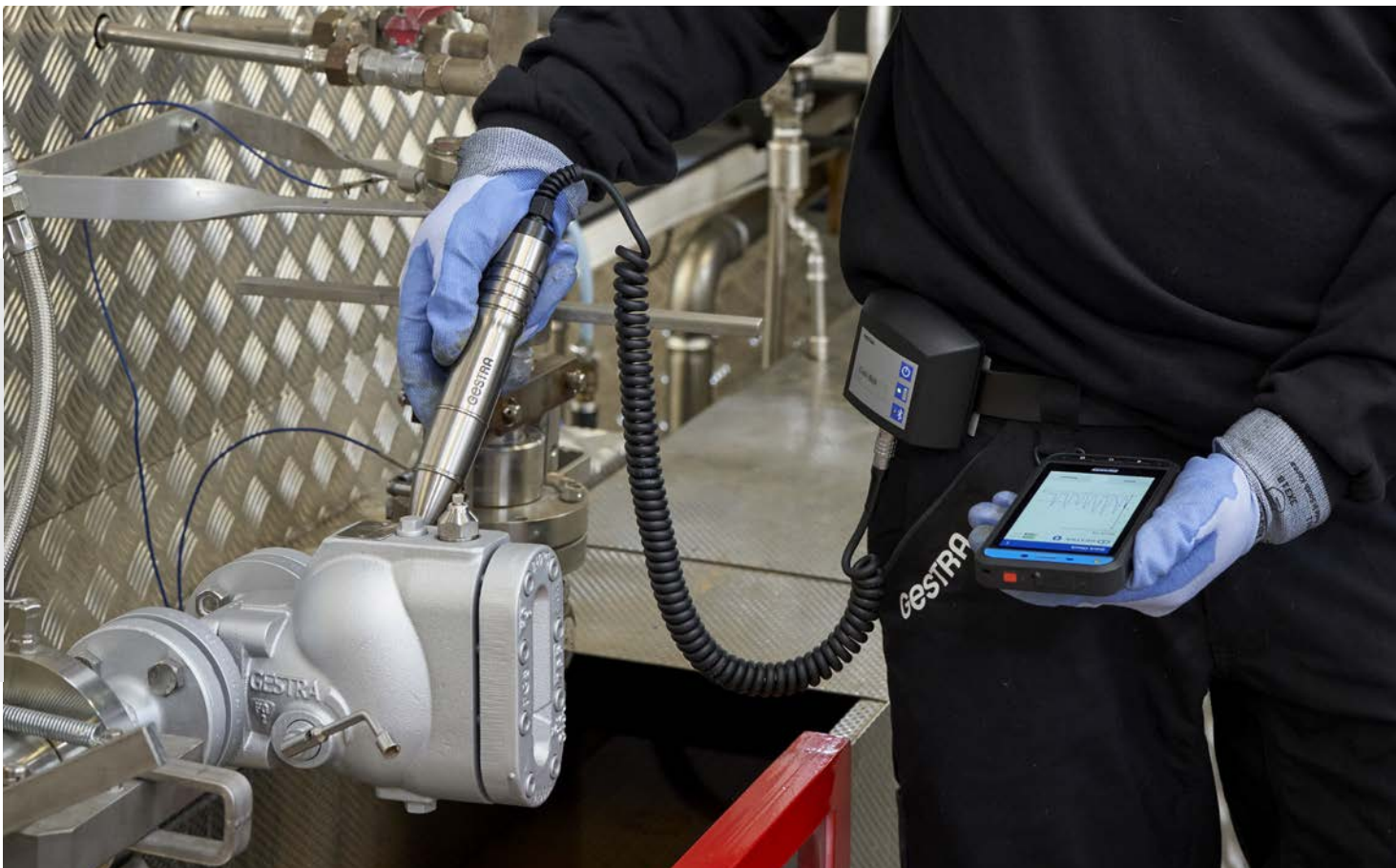
Faulty steam traps	Loss per annum	Yearly CO ₂ emissions
1	720 EUR	3,840 kg
10	7,200 EUR	38,400 kg
20	14,400 EUR	76,800 kg
50	36,000 EUR	192,000 kg
200	144,000 EUR	768,000 kg

This overview does not take account of any further consequences of faulty steam traps, such as premature wear of pipes, influence of faulty steam traps on functioning ones, etc.

VKP 42 local / portal comparison

	VKP 42 local	VKP 42 portal
Ex	✓	✓
Non-Ex	✓	✓
Local PC application	✓	–
Access from everywhere	–	✓
Remote support	–	✓
Regular updates	–	✓
Multi-user (optional)	–	✓

For further information or support contact your local GESTRA team under www.gestra.com





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