

# New Steam-Trap Testing System by GESTRA

## Objective Monitoring of Steam Traps Now Easier than Ever

With the latest development of the GESTRA **TRAPtest** system for the monitoring, recording and evaluation of steam traps, the **VKP 40** (or **VKP 40ex** for plants with hazardous areas), steam traps of **all makes and types** can be checked and assessed for more than just steam loss. The system consists of a hand-held terminal, a measuring transducer and software for data management by PC. For a specific working pressure, the integrated and simultaneous temperature measurement is used to identify jammed (banked-up) steam traps.

In addition, the PC software makes it possible to assess the steam losses caused by defective traps, including an economic viability analysis.

The test system records and assesses ultrasonic vibration at the casing surface of steam traps while they are in operation. On the graphic display of the hand-held terminal, the signals received during the testing period are shown in a constant graph, which is then evaluated according to preset **limit sound values** (LV) which are determined empirically and depend on the trap's functional type. To estimate the magnitude of the steam losses for faulty traps, comparative curves obtained by experiment are used.

## The performance profile of the VKP 40 / VKP 40ex:

- Can be used universally for steam traps of **all** types and makes
- Automatic evaluation of the steam trap being tested
- Integrated temperature measurement for identifying jammed steam traps
- User-friendly PC software for the storage and management of trap-specific data
- No special knowledge required for the steam-loss reports
- Clear and informative repair orders can be printed out
- Data exchange between PC and hand-held terminal with one mouse click
- Hand-held terminal with only 5 keys and a clear user interface ensures ease of operation
- Illuminated graphic display for presentation of the recorded sound curve
- PC software independent of country-related Windows versions
- Test measurements for spontaneous trap testing, including automatic evaluation without previous data storage at the PC
- Short testing duration: min. 10 seconds, max. 20 seconds
- Degree of protection IP 65
- VKP 40ex intrinsically safe as per **Eex ib lic T4**