



Application

Software for early recognition of faults in control valves with recommendations for preventive maintenance.

TROVIS-EXPERT is a diagnosis tool designed to conduct specific tests for preventive, condition-related maintenance of control valves with pneumatic actuators. Owing to its Windows user interface, operating TROVIS-EXPERT is easy to learn.

Special features

- Standard diagnostic tests without additional sensors attached to the control valve
- Extended diagnostic tests with detailed information about the condition of the control valve
- Analyses possible in offline (i.e. while the plant is shut down) or online mode. In online mode, tests can be carried out during operation.
- Evaluation of test results on the basis of a reference test
- Detection of critical conditions before an obvious fault occurs
- Displaying of servicing and maintenance recommendations
- Displaying of status reports and error messages
- Saving of test results in databases
- Recording and archiving of control valve data listing time and date (e.g. configuration data of positioner, valve and actuator)

For additional information about the diagnostic tests available in TROVIS-EXPERT, refer to the inside pages and the back of this data sheet.

Range of application

The standard diagnostic test can be conducted on almost any control valve with a pneumatic actuator, except control valves with double-acting actuators or pneumatic volume boosters. The extended diagnostic test can only be performed on SAMSON Series 240, 250 and 280 Globe Valves used together with SAMSON Types 3271 and 3277 Actuators.

TROVIS-EXPERT only works in connection with a Type 3780 Positioner with HART communication, firmware versions K2.21/R2.21 and higher (modification index on name plate: .03 or higher), initialized with the appropriate operating software.

TROVIS-EXPERT does not replace the existing operating tools like IBIS, PDM, TROVIS-VIEW etc.

System requirements

Hardware

A PC with the following minimum equipment is required:

- Minimum Pentium processor with 266 MHz
- 32 MB RAM
- Serial interface

Software

Operating system Windows 98 or NT version 4 and higher

Communication

HART communication with FSK modem, Point-to-point connection only

Scope of delivery

The TROVIS-EXPERT software is delivered on a CD-ROM with online documentation.

Updates

Updates can be downloaded from the Internet (e.g. in future for Windows 2000)

Demo version

A demo version is available on the SAMSON Product CD or the Internet.

Ordering text

Valve Diagnosis Tool TROVIS-EXPERT 6651