Testing Equipment

Advanced Steam Trap Management System



Features

- High-speed diagnosis: Each steam trap will be surveyed in less than 10 seconds. A normal trap without any leaks can be tested in only 2 – 4 seconds. Out of service traps are always identified in 2 – 4 seconds.
- Small and lightweight: The total weight of the detector and processor is only 1.25 Lb. (580 g), which means that it can be carried by a technician for an extended period of time without fatigue.
- Simple operation: A steam trap can be tested with a single press of the "OP" key on the detector. The processor design requires only simple actions by the operator, making it easy to learn to use.
- Can be used with high-pressure traps: Dr. Trap can be used to test any steam trap at a wide range of pressures and at temperatures up to 932°F (500°C).
- Extended battery operation: The batteries allow approx. 12 hours of continuous operation. There is no need to replace the batteries in the middle of the day.
- Ample storage: The results of 1,000 steam trap checks can be stored in the processor's memory.
- 7. High-speed automatic analysis: The Dr. Trap software provides automatic analysis and high-speed sorting of the data collected.

System Configuration

Processor PM 310 processes the data from the detector, displays and stores results.

Detector PM 321 detects the vibration and temperature in steam traps, which is used in their diagnosis.

Dimensions

Software



Hardware

Weight	Detector PM 321: 0.58 Lb (270g) Processor: 0.65 Lb (310g) incl. battery and soft case	Medium	CD-ROM				
Sensor	Vibration Sensor: Piezo-electro-ceramic accelerometer Temperature sensor: Infrared sensor (thermopile)		General-purpose personal computer				
Temperature range	Ambient temperature to 932°C (500°C)		OS: Windows 95 or later				
•ower supply 2 x 1.2V AA size rechargeable battery		Environment	Memory (RAM): 32 MB or more				
Continuous operating	Approximately 12 hours (approximately 9 hours with the LCDs lit continuously)		Hard disk: 40 MB free space (50 MB when being installed) or more Display resolution: 800 x 600 pixel or better				
Working survey time	10 seconds (2 seconds minimum)						
Trap recording capacity	1.000 Data max.		Display colors: 256 or more				
Display	LCD (16 characters x 2 lines)						

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Software PM330

This custom software can be run on a personal computer. It aggregates and analyzes steam trap data from the processor, identifying faulty steam traps, leaking traps, etc., making it easy to manage all of your traps. It provides detailed charts and graphs. Survey results are transferred from the processor to the computer using the Dr. Trap management software.

Functions

Survey lists

Survey lists are automatically generated from the test results of all traps which have been checked. Furthermore only failed traps can be extracted from the management log to make a list showing the volume of steam that is leaking.

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Data analysis

Based on detailed lists of failed traps, a variety of data can be produced including the gross failure rate, the failure rate for each trap type and the level of failures by type, and steam losses.



