

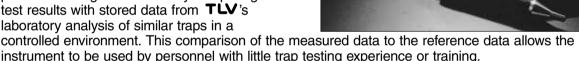
# **TrapMan**® MODEL TM5/TrapManager

#### COMPUTERIZED STEAM TRAP MANAGEMENT SYSTEM FOR PRODUCTIVE MAINTENANCE

#### **Benefits**

Complete measurement and analysis system for effective management of the steam trap population. TrapMan consists of two main components:

- •TM5 hardware, a precise ultrasonic and temperature testing instrument which stores and accesses **TLV** diagnosis technology for making consistent performance judgments.
- •TrapManager software, a comprehensive Windows based program designed to enable extensive data analysis of the entire trap population.
- 1. **TM5** makes the judgment, not the test personnel. Judgments occur by comparing the test results with stored data from TLV's laboratory analysis of similar traps in a controlled environment. This comparison of the measured data to the reference data allows the



- 2. Trap performance is diagnosed within 15 seconds to facilitate a high daily testing rate.
- 3. The **TM5** unit measures and indicates both the test judgment and surface temperature for operator use. This data is stored and can easily be uploaded to a computer via cable transfer.
- 4. For rapid circuit testing, **TM5** can store inspection data for approximately 1600 traps. Most frequently referenced models can be input and quickly recalled from the instrument's memory.
- 5. Diagnostic data for each steam trap can be classified, summarized, and automatically analyzed for effective report and work order generation.
- 6. **TrapMan**'s judgement accuracy has been validated by Lloyd's Register.

## Specifications (Diagnosis Hardware)

Model	TM5	TM5-EX*
Description	Standard	Intrinsically safe cULus: Class I , Groups C and D, Temp. code T3C
Measurement Period	15 seconds (Time period required to hold the probe against the trap)	
Automatic Judgement	Good/Leak (Small, Medium, Large) /Blowing/Blocked/Low Temperature/Temperature Adjustment Failure	
Manual Judgement	Not in S (not in service), L/Gasket (gasket leak), L/Body (body leak), NO CHECK (not inspected)	
Memory	Total available registered trap models: Max. 3400 (more than 4000 available in <b>TrapManager</b> ).  Call registered models: max. 30 models per trap type  No. of steam traps that can be tested and survey data memorized at one time: approximately 1600  Information items: 20. Model/Judgement/Temperature/Pressure/Inspection Data/Application/Installation Data/Connection, etc.	
Display	16 digits×2 lines, 5×7 Matrix LCD	
Steam Pressure Range	7—999.9 psig	
Steam Trap Surface Temperature	32-662°F	
Operating Temperature		32-104°F
Humidity Range		20-80% RH
External Interface	RS232C (Maximum communication	n speed: 19200 bps) (Adapter for USB provided)
Power	Charger: Rapid 1 hr. charge (Spec Continuous Operation: 10 hrs. ( Auto Power OFF: Auto Power Off function if no operati	attery**: Lithium 850 mAh (holds data for approx. 10 yrs.) cial charger with protection against overcharge) with back-light off), 7 hrs. (with back-light on) on for more than 5 minutes (defaults to enable, can set to disabled) went off). Battery Recondition: Yes (do it before recharging)

The TM5-EX is approved for use in hazardous locations only while inserted in the leather case. Do not remove the case while in a hazardous location. Product markings are provided on the product enclosure beneath the leather case. For hazardous areas, the TM5-EX should be used by trained personnel with knowledge of the hazardous locations/classifications

TM5 batteries are recyclable. Dispose of them in an environmentally friendly manner and according to local regulations. (For TM5-EX, do not attempt to remove batteries. Return unit to TLV for battery replacement). Copyright © TLV



## **Consulting & Engineering Service**

## **Specifications (Analysis Software)**

Model			TrapManager	
Main Features	Management Log		Can display and maintain: All Trap List/Failed Trap Reminder List/Inspection History List	
	Trap Route		Survey route can easily be set and saved	
	Analysis		Can analyze and save the data by selecting various conditions in detail	
	Report		Can print: Log Detalis/Inspection History/Failed Trap Reminder List/ Trap Route/Set up conditions, etc.	
	Communication		Automatic data transfer	
PC Requirements	OS		Windows 2000, Windows XP, Windows Vista	
	Minimum		XP: Intel Pentium 133, 2000: Intel Pentium 300, Vista: Intel Pentium 800	
	CPU*	Recommended	Intel Pentium 1 GHz or greater	
	Hard Di	sk	60 MB	
	Memory	(RAM)	512 MB Minimum	
	CD-ROM Drive		2× (double speed) minimum	
	Display	Minimum	SVGA (800×600) with 256 colors	
		Recommended	XGA (1024×768) with 16 bit color	

<sup>\*</sup> TrapManager has been designed to work with Intel processors. Windows is a trademark of Microsoft Corporation, Pentium is a Trademark of Intel Corporation.

# **Dimensions** (in) ON UGHT OFF 888 7 8 9 4 5 6 1 2 3 Weight approx. 1.1 lb Weight approx. 0.8 lb

### **Package**

#### TM5/TM5-EX

Main Units: Main Body, Coil Cord, Probe Accessories: Special Electrical Charger,

> Protective Case, Belt-loop Holder, Strap, Flat File, Carrying Case, Ear Phone (TM5 only), Communications Cable, Serial/USB Adapter

Pocket Guide

Instruction Manual (pdf file on CD-ROM)

#### TrapManager

Manual:

(CD-ROM) Software:

Accessories: Hardlock Key (HASP: USB standard,

LPT optional)

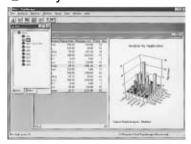
Quick Start Guide (pdf file on CD-ROM) Manual:



- 1. Use ONLY the battery charger included in the package when the unit is charged.
- 2. The interface cable and HASP included in the package must be used when the unit is connected to the PC.

## Sample Screen of TrapManager

#### Analysis



#### 2 Report



#### ③ Maintenance



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Manufacturer







ISO 9001/ISO 14001