



TI-P087-35  
MI Issue 3

UP100  
Ultrasonic Trap Tester

Description

The UP100 is a portable battery powered instrument which gives visible and audible indication of ultrasonic frequencies. It is intended for use as a diagnostic tool in the analysis of steam trap operation and can also be used to detect leaks in steam and compressed air systems. Some experience, together with a working knowledge of steam trap operation, is required to correctly interpret the signals.

The UP100 consists of 4 components:

- 1. The pistol housing.
- 2. The stethoscope probe module with extension rods.
- 3. The headset with extension cable.
- 4. The flexible carrying case.

Limiting conditions

Ambient temperature operating range	0 to 50°C
Ambient temperature storage range	-18 to 54°C

Technical specifications

Circuitry	SMD/solid state heterodyne receiver
Frequency response	20- 100 kHz (centred on 38-42 kHz)
Sensitivity selection	8 position precision attenuation
Ultrasonic level display	10 segment red LED bargraph
Battery	9 volt alkaline
Headset	Sony 'Walkman' type model MDR 24 (non standard male plug)
Probes	Stethoscope/contact module type (STM-1) stainless steel plug in type with 140 mm stainless steel waveguide. Extension rods to 788 mm for inaccessible steam traps.

Operation

Full operating instructions are included with each UP100. **Please note** that the UP100 is **not** suitable for use in hazardous areas.

Materials

Pistol housing	ABS plastic
Probe module	Stainless steel
Extension rods	Aluminium alloy
Carrying case	Black soft cordura

Spares

- The following spares are available:
- 9 volt alkaline battery
  - Sony MDR 24 headset (non standard male plug)
  - STM-1 probe
  - 788 mm extension rods

How to order

1 off Spirax Sarco UP100 ultrasonic trap tester.



Dimensions / weights (approximate) in mm and kg

	A	B	C	D	Weight including battery
UP100 instrument and probe	114	200	48	292	0.35
UP100 in carrying case	250 x 160 x 90				0.70

