

Elmaspheric

Leak detector

Elma Order Nos

elma-spheric	102 4001
Mains plug 210 - 240 V ~	690 070 0000
Mains plug 110 - 130 V ~	690 070 0003
Compressor	on demand
Printer	on demand



Watch leak detector for the professional use. Perfect for watches with or without watch strap. Leak detection through pressure and/or vacuum. Simple handling with 7 predefined universal testing programmes plus one special programme for locating the leaks. 10 additional testing programmes available, adjustable according to individual requirements.

Product features:

- Testing principle: Analysis of the deformation of the watch case by pressure and/or vacuum.
- **Measuring and testing programmes**: Predefined testing programmes: 7 predefined testing programmes, optimized for different watch types. Customer-specified testing programmes: 10 programmes that allow the free selection of testing parameters such as pressure,
 - tolerances, measuring period, etc., with 1 or 2 different testing pressures.
 - Leak Finder Programme: special programme for the detection and localization of a leak in the watch under water
- Vacuum and pressure ranges: Vacuum: variable between -0.2 and -0.8 bar in steps of 0.1 bar. (vacuum pump integrated). Pressure: variable between 0.2 and 10.0 bar in steps of 0.1 bar. (Connection to a separate compressor required). Accuracy of testing pressure: +/- 5 % of the set filling pressure.
- **Testing period**: Automatic stabilization period: Determination based on the programmed tolerances and depending on the specific properties of the watch tested. Manual setting of the testing period: variable between 10 and 300 s.Automatic repetition of the test when results are not clear
- **Stabilization period**: Automatic stabilization period: automatic transition from stabilization totesting, when the required stability is reached. Manual setting of stabilization period: variable between 10 and 300 s.
- **Setting of tolerances**: Predefined testing programmes: automatic determination based on the specific properties of the watch tested and on the testing pressure.

 Customer-specified measuring programmes: setting of the tolerance by %/min.
- Measuring of the deformation: Measuring range: -300 to +1200 μm; Resolution display: 0.1 μm; Resolution sensor: 0.02 μm; Minimum required deformation of watch: with full measuring accuracy: 5 μm; with reduced accuracy: 1.5 μm
- Maximum watch size: Diameter: 70 mm; Thickness: 28 mm; Width of watch strap: 85 mm; Height of support: 75 mm
- **Display of results:** Percental regeneration of the deformation referred to one minute of testing period. Range 0 to 9.9 %, resolution 0.1 %. Automatic evaluation leak/no leak. Constant indication of deformation and testing pressure during testing, status indication for testing progress and count-down of remaining testing period. Display of date and time.
- Interfaces: USB for PC; RS232 for printer
- Power supply: Mains plug 210 240 V~. Output: 9 V~ / 1.2 A or: Mains plug 110 130 V~. Output: 9 V~ / 1.2 A

Technical Data

Outer dimensions of unit w/d/h (closed) (mm / inch)	245 / 240 / 240
Weight (kg)	6,1

echnical and optical information are subject to change Elma_ch_09/08