**Simplicity**

Measuring a capacitor’s ESR (equivalent series resistance) is a great indicator of capacitor condition.

The *Atlas ESR+* offers instant results, just connect the probes and press test. Innovative audible alerts give you an instant feedback of the measurement results with further detail shown on the screen.

And the tones themselves are surprising pleasant, including “Bell-like” pings (a couple of different types for ESR that is below certain values), and also a “Beep-Barp” type tone for ESR that is likely to be too high. There is also a reassuring “Blip” when the measurement has started and completed.

You can even use the *Atlas ESR+* in-circuit, saving you the trouble of removing capacitors. When testing capacitors out-of-circuit, the unit will also display the capacitance.

**All You Need**

This clever instrument is a great way to check the physical condition of a wide range of capacitors (it’s not just capacitance that’s important!). Elevated ESR is a sure indicator that the capacitor is failing and likely to dissipate heat and perform less like a capacitor and more like a resistor at high ripple currents.

It can measure and compensate for the effects of measuring ESR in-circuit too, it also knows that you don't want to be hassled with capacitor polarity, just connect any way round.

**Unique Controlled Discharge**

It's designed with the real world in mind. Some capacitors can be charged up, but the *Atlas ESR+* doesn't mind. If your capacitor is charged, the unit will automatically carry out a controlled discharge procedure before measuring the capacitance and ESR.

**Low Resistance Checking**

The superb low resistance measurement capability is a great way of tracing PCB shorts.

**Feature Summary**

- Measure capacitance and ESR.
- Enhanced ESR range from 0 to 40 ohms.
- Resolution down to 0.01 ohms.
- Analyses at industry standard of 100kHz.
- Capable of In-Circuit testing.
- Special tones for >40Ω, <5Ω, <1Ω, OC.
- Audible alerts can be turned on or off.
- Polarity free, connect any way round.
- Protected against highly charged capacitors.
- Supplied with comprehensive ESR look-up chart included in the user guide.

**Parameter**

- **Peak test current into S/C**: ±20mA ±22mA
- **Peak test voltage, full scale ESR**: ±40mV ±44mV
- **Peak test voltage across O/C**: ±2.5V ±3.0V
- **Capacitance measurement range**: 1μF 22,000μF
- **Capacitance accuracy**: ±4% ±0.2μF
- **ESR measurement range**: 0Ω 40Ω
- **ESR resolution for ESR < 2Ω**: 0.01Ω 0.02Ω
- **ESR resolution for ESR > 2Ω**: 0.1Ω 0.2Ω
- **ESR accuracy for ESR < 2Ω**: ±1.5% ±0.02Ω
- **ESR accuracy for ESR > 2Ω**: ±1.5% ±0.2Ω
- **Abuse voltage (for C < 10μF)**: ±275V
- **Abuse voltage (for C > 10μF)**: ±50V
- **Auto-Discharge voltage limit**: ±50V
- **Battery type**: MN21/GP23A 12V Alkaline
- **Battery voltage range**: 8.5V 12V
- **Battery voltage warning threshold**: 8.5V
- **Inactivity power-down period**: 30 seconds
- **Dimensions (excluding test leads)**: 103 x 70 x 20 mm
- **Operating temperature range**: 10°C 40°C

**Notes:**

1. Subject to acceptable LCD visibility.
2. Subject to revision.
3. Maximum abuse voltage is limit of protection electronics.

Probes, leads and unit are not certified for high voltage use.

Please note that specifications of our products are subject to change without notice. E&OE.

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