

# Atlas ESR

equivalent series resistance meter

Model: ESR60

# Enhanced

# PEAK

electronic design ltd

## PRODUCT BRIEF

### 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.

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

Traditionally, ESR can be a tricky thing to measure, which is a shame, it's a very useful diagnostic parameter. Of course, ESR meters are available from various sources, some are very famous in the repair sector, but the *Atlas ESR* is more than just another ESR meter. For a start, it's smart, both in looks and in brain. It can measure and compensate for the effects of measuring in-circuit, it also knows that you don't want to be hassled with capacitor polarity.

### Tough

Oh yes, it's designed with the real world in mind. Some capacitors can be charged up, a lot, 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.



Test Lead Length:  
typically 45cm (18")

### Specifications (at 25°C unless otherwise quoted)

Parameter	Min	Typ	Max	Note
Peak test current into S/C		±20mA	±25mA	
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		20Ω	2
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)			±400V	3
Abuse voltage (for C > 10µF)			±50V	3
Auto-Discharge voltage limit			±50V	
Battery type		MN21/GP23A 12V Alkaline		2
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	1

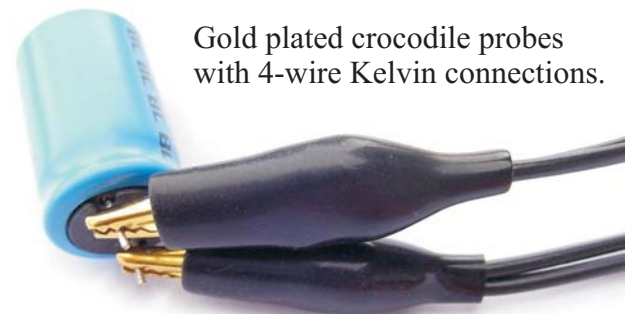
#### Notes:

1. Subject to acceptable LCD visibility.
2. Subject to revision.
3. Maximum abuse voltage rated limitation of internal 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.

### Feature Summary

- Measure capacitance and ESR.
- Resolution down to 0.01 ohms.
- Analyses at industry standard of 100kHz.
- Capable of In-Circuit testing.
- Polarity free, connect any way round.
- Protected against highly charged capacitors.



Gold plated crocodile probes  
with 4-wire Kelvin connections.

06/2006

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