NEW product

AT 2515/ 2515-12

ULTRA LOW DC RESISTANCE TESTER

CHINESE/ENGLISH OPERATION

264 (W) * 105 (H) * 327 (D)
UNIT: mm

Weight: 3.5kg

resolution 0.01μΩ

MEASUREMENT RANGE
0.01μΩ~1200.0MΩ

5-inch touch screen

SINGLE CHANNEL AT2515

MULTI-CHANNEL AT2515-12

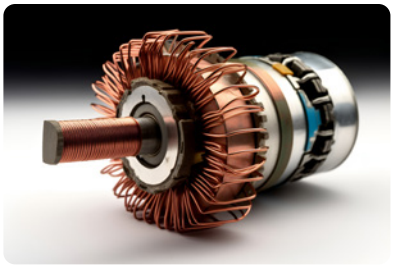


Power Supply 100-240VAC Power: 30VA

In the rapidly developing wave of electrification society, batteries, motors, and various electronic components are accelerating their evolution towards high current and high voltage. This trend places higher demands on energy efficiency and system safety, making even small resistance deviations potentially have significant impacts. Therefore, implementing more precise and reliable quality control of resistance parameters has become the key to the development of the industry.

The AT2515 high-precision resistance tester was born to address this challenge; As the first six and a half digit display resistance testing instrument in China, its measurement range covers 0.1 μ Ω to 1.2G Ω, with a basic accuracy of up to 0.02%, which can fully meet the high-precision measurement needs of all scenarios from research and development design to production lines.

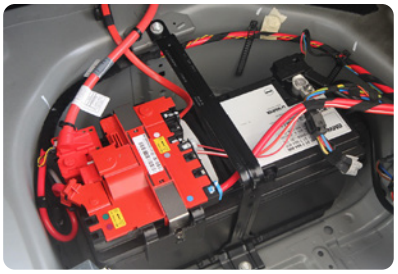
MEASUREMENT OBJECT It can measure the resistance of components or wiring that flow high currents, as well as connectors that fail due to connection issues.



WINDING RESISTANCE OF MOTORS AND TRANSFORMERS



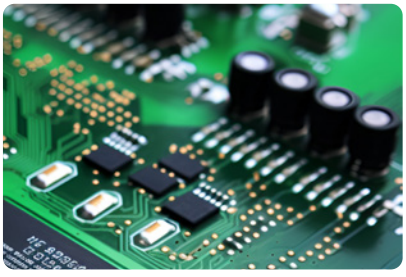
DC RESISTANCE OF FUSES AND SHUNT RESISTORS



WELDING RESISTANCE OF BATTERY BUSBAR



WINDING RESISTANCE OF MOTORS AND TRANSFORMERS



PATTERN RESISTANCE OF PRINTED CIRCUIT BOARD



COPPER ROD MATERIAL RESISTANCE

MODEL	AT2515	AT2515-12
Parameters	DC resistance	
Channels	1ch	12chs
measurement range	0.00001mΩ~1.2GΩ	
Range	12 ranges, auto, manual, and nominal	
Test speed	Slow: 4 t/s; Medium: 8 t/s; Fast: 40 t/s; High: 100 t/s (when triggered externally and at high speed, the instrument will simplify the interface refresh, and can achieve a single measurement of up to 2.5ms at the fastest)	
Max reading	1200000	
Trigger	Internal and external (manual and remote) triggers	
Test end	Four terminal testing	
Comparator	10 sets of comparator functions;	When scanning, there is one set of comparators, and each channel can be set arbitrarily
Display results	Direct reading/Δ ABS/Δ% and sorting results	
News ringing	Qualified (GD), Unqualified (NG), and Off settings.	
Interface	Handler,RS232、RS485,LAN,Temperature compensation interface	
Language	SCPI & Modbus（RTU）	
Other	5-inch touch screen; Keyboard lock and data retention function	

MEASUREMENT ACCURACY **LP：ON** **When LP, OVC defaults to ON and cannot be set.**

RANGE	MAX MEASUREMENT RANGE	TEST ACCURACY ±(% of Reading + % of fS)				MEASURE CURRENT	MAX OPEN CIRCUIT VOLTAGE
		FAST	MED	SLOW1	SLOW2		
LP 1Ω	1.20000 Ω	0.200+0.100	0.200+0.010	0.200+0.005	0.200+0.003	1 mA	20 mV
LP 10Ω	12.0000 Ω	0.200+0.050	0.200+0.005	0.200+0.003	0.200+0.002	500 μA	
LP 100Ω	120.000 Ω	0.200+0.050	0.200+0.005	0.200+0.003	0.200+0.002	50 μA	
LP 1KΩ	1200.00 Ω	0.200+0.050	0.200+0.005	0.200+0.003	0.200+0.002		

LP：OFF

RANGE	MAX MEASUREMENT RANGE	measure current		OVC	TEST ACCURACY ±(% of Reading + % of fS)				Unzeroed addition accuracy (% of fs)	Max open circuit voltage
		switch			FAST	MED	SLOW1	SLOW2		
10 mΩ	12.000 00mΩ	High	1A	OFF	0.060+0.050	0.060+0.020		0.200+0.002	0.020	5.5V
				ON	0.060+0.015	0.060+0.020		0.060+0.001	-	
100 mΩ	120.0000mΩ	High	1 A	OFF	0.060+0.010	0.060+0.001		0.060+0.010	0.002	
				ON	0.060+0.003	0.060+0.001		0.060+0.001	-	
		Low	100mA	OFF	0.014+0.050	0.014+0.020		0.014+0.020	0.020	
				ON	0.014+0.015	0.014+0.002		0.014+0.001	-	
1Ω	1.200000Ω	High	100mA	OFF	0.012+0.010	0.012+0.008			0.002	
				ON	0.012+0.003	0.012+0.001			-	
		Low	10mA	OFF	0.008+0.050	0.008+0.020			0.020	
				ON	0.008+0.015	0.008+0.002			-	
10Ω	12.000 00 Ω	High	10mA	OFF	0.008+0.010	0.008+0.008			0.002	
				ON	0.008+0.003	0.008+0.001			-	
		Low	1mA	OFF	0.008+0.050	0.008+0.020			0.020	
				ON	0.008+0.015	0.008+0.002			-	
100Ω	12.00000 Ω	High	10mA	OFF	0.007+0.005	0.007+0.002		0.007+0.001	-	
				ON	0.007+0.005	0.007+0.001		0.007+0.001		
		Low	1mA	OFF	0.008+0.010	0.008+0.010			0.020	
				ON	0.008+0.003	0.008+0.001			-	
1kΩ	1.200000kΩ	-	1mA	OFF	0.007+0.005	0.006+0.002		0.006+0.001	-	
				ON	0.007+0.005	0.006+0.001		0.006+0.001		
10 kΩ	12.00000kΩ		1mA	-	0.008+0.005	0.007+0.002		0.007+0.001		20V
100 kΩ	120.0000kΩ		100 μA		0.008+0.005	0.007+0.002		0.007+0.001		
1MΩ	1.20000 MΩ		10 μA		0.015+0.005	0.008+0.002		0.008+0.001		
10 MΩ	12.0000 MΩ		1 μA		0.030+0.005	0.030+0.002		0.030+0.001		
100 MΩ	120.00 MΩ		≤ 1 μA		≤ 10.00 MΩ: 0.50 + 0.02 ≥ 10.01 MΩ: 1.00 + 0.02					
1000MΩ	1200.0 MΩ				≤ 100.0 MΩ: 1.00 + 0.02 ≥ 100.1 MΩ: 10.00 + 0.02					