

ETCR[®] EM3690/EM3690C Contract Loop Resistance Tester(Handheld Type)



Product Function

Used for measuring the small resistance of high voltage switches, circuit breakers, relay metal contacts, etc..

Product features

1. 5-inch touch colorful screen, large-capacity power lithium battery, handheld type structure, easy to carry and simple to operate.
 2. Max. test current up to 100A, comply with the power standard of the "DL/T845.4-2004".
 3. Anti-power frequency interference, meet the application request of 1000KV substation.
 4. The housing insulation, sealing, anti-leakage, anti-wind & sand, shock protection and other functions.
 5. Max. store 1000 groups data and will not lose data when power is off.
 6. The instrument has Bluetooth communication, USB interface, automatic shutdown and other functions.
 7. The instrument has overheat protection function, which will stop testing when the internal temperature is too high.
- *The C model equipped with a thermal printer, which can print test results on site.

Technical Specification

Product Model	EM3690	EM3690C
Measurement Range	0.0uΩ~10.000mΩ	0.0uΩ~80.000mΩ
Test Current(DC)	50A, 100A(2 gear)	10A,20A,30A,40A,50A,60A,70A,80A,90A,100A(10 gears)
Test Time	Fast, 10s, 20s, 30s, 40s, 50s, 60s	Fast, 1~60s (customize)
Weight	Approx. 5.74kg(include accessories)	Approx. 6.07kg(include accessories)
Test Method	Precision 4-wire method, 2 channels A/D simultaneous detection	
Power Supply	DC 7.4 V 17600mAh rechargeable lithium battery	
Max Resolution	0.1uΩ	
Output Voltage	Approx. 3.7V	
Test Current Accuracy	±5%	
Measurement Time	>500 times (100A fast mode)	
Overflow Display	Over-range overflow function: The meter displays over-range, please check the wiring	
Battery Power Indicator	Real-time display of current battery power	
Data Storage	1000 groups (data will not be lost after power failure or battery replacement)	
Data Hold	After test, the test results will be automatically displayed.	
Automatic Shutdown	After setting automatic shutdown, the tester will automatic shutdown after 15 minutes without any operation	
Test Wire	Red*1PCS; Black*1PCS	
Display mode	5-inch true color LCD touch screen	
Host Dimension	263mmX152mmX74mm	
Working Temperature & Humidity	-10℃~40℃; below 80%RH	
Storage Temperature & Humidity	-10℃~60℃; below 70%RH	
Bluetooth Communication	Yes, can communicate with mobile terminals	
External Printer	Bluetooth thermal printer, powered by lithium battery 7.4V 1200mAh (only Type C)	
USB Interface	With USB interface, software monitoring, storage data can be uploaded to computer, save and print.	
Withstand Voltage	AC 3700V/rms(between the housing and screws)	
Safety Regulations	IEC61010-1, CAT III 600V, Pollution Degree 2, JJG724-1991 "Verification Regulation for DC Digital Ohmmeters", JJG166-1993 "Verification Regulation for DC Resistors", DL/T967-2005 "Verification Regulation for Loop Resistance Testers and Rapid DC Resistance Testers", JJG 1052-2009 "Verification Regulation for Loop Resistance Testers and DC Resistance Meters", DL/T845.4-2004 "General Technical Specifications for Resistance Measurement Devices Part 4: Loop Resistance Testers"	
Accessories	Tester: 1PCS; Test lines: red*1PCS; black*1PCS; USB communication cable: 1PCS; 0.5mΩ standard resistor: 1PCS; Power adapter: 1PCS; Tool bag : 1PCS; Printer: 1PCS (Type C only); Printer charger: 1 PCS(Type C only)	