

Visit VacuumInterrupterTesting.com to download our technical paper on predicting the remaining life of vacuum interrupters in the field.



WHEN YOU REALLY WANT TO KNOW MAC-TS5+



Trust Magnetron Atmospheric Condition (MAC) testing to give you confidence in the remaining life of your vacuum interrupters

Until now, the accepted field-service test for vacuum interrupters has been a simple go/no-go test performed with an AC/DC high-potential (HiPot) test set. Today, testing with the MAC-TS5+ test set converts VI pressure readings to a simple pass/fail indicating five or more years of useful life in the VI. Thanks to the MAC-TS5+, you can now perform long-term MAC tests and short-term HiPot tests at the same time!

MAC-TS5+ IS THE ONLY PORTABLE TEST SYSTEM CAPABLE OF CONDUCTING SHORT-TERM HIPOT VACUUM INTERRUPTER (VI) TESTS AND LONG-TERM MAC PREDICTIVE LIFE TESTS

- MAC-TS5+ IS EASY, SAFE TO OPERATE, AND CAPABLE OF TESTING VACUUM INTERRUPTERS IN BOTH THE SHOP AND FIELD
- ANALYSIS BASED ON SAME OEM LEAK-RATE TEST PERFORMED AT THE FACTORY
- SYSTEM PARAMETERS BASED ON MEASUREMENTS OF THOUSANDS OF VACUUM INTERRUPTERS

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Magnetron Atmospheric Condition (MAC) Analysis

MAC-TS5+ TEST SETS

MAC-TS5+ SPECIFICATIONS

Input Power: 120 V AC 50/60 Hz (standard), 230 V AC 50/60 Hz (optional)

Measure Accuracy: <10% of the reading

Environment: Operating: -10°C to +50°C (+15°F to +122°F)

Humidity: 80% up to 31°C (88°F), decreasing linearly to 50% at 50°C (122°F)

Altitude: 5,000 ft. (1,524 m) to full safety specifications

Cables: Ground stick with 20 ft. of ground wire, 20 ft. ground cable, 20 ft. signal input cable, external interlock jumper plug, attached 20 ft. RG8/U output cable, magnetic coil output cable, MAC interface cable, flexible magnetic coil, attached power cable

Options: Breaker specific rigid coils

75 kV DC HIPOT SPECIFICATIONS

Input: 120 V AC 50/60 Hz

Output: 0-75 kV DC @ 10 mA, negative polarity, positive ground

Voltmeter: 3.5", scaled 0-37.5/75 kV DC, ±2% F.S.

Current Meter: 3.5", scaled 0-1.0 uA DC, ±2% F.S. with multipliers of x1, x10, x100, x1 k, x10 k

Megohmmeter: Scaled 100 -1 MΩ with multipliers of x0.1, x1, x10, x100, x1 k



MAC-TS4 vs. MAC-TS5+ AT A GLANCE

| FEATURES | MAC-TS4 | MAC-TS5+ |
|---|---------|----------|
| Simplifies VI pressure readings to a pass/fail indication using MAC theory | | ☺ |
| Fully functional 75 kV DC HiPot | | ☺ |
| Easy and safe to operate | ☺ | ☺ |
| Portable tester for field or shop use | ☺ | ☺ |
| Compatible with rigid or flexible magnetic field coils (one flex coil included in purchase price) | ☺ | ☺ |
| Compatible with lab-based fixed magnetic field coil | ☺ | |
| Graphical LCD display | ☺ | |
| PC software allows user to control operation, download stored test results, and generate test reports | ☺ | |
| Identifies issues with a VI before it fails HiPot | ☺ | ☺ |

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