

PC Based Automatic Sequential Analyzer

Model: D-9005 AS,D-9005 ASR

The PC Based Automatic Sequential Analyzer is the most comprehensive tester designed to automatically check the quality of 1φ & 3φ wound stators in fast paced production motor shops.



Features

- Infinite Model Storage Capability
- Job Work Management Area
- 17 Inch DELL Monitor with ADVANTECH Industrial PC
- LABVIEW Software Based Application
- Permission Based Login System
- Software Defined Limits For Test Parameters
- Online Support & Calibration Using Remote Access s/w
- Bar Code/QR Code Reading Facility

Benefits

- Double Station test bench to support testing of stators upto 180 frame size.
- Temperature Compensated Resistance Test
- 17 Inch Colour Coded Display Screen
- Audio, Visual Alarm For Faulty Stator
- Printer Can Be Connected Via USB For Direct Printouts
- MS Excel Report Generation (Pie & Bar Charts)

Applications

This tester is widely used for testing newly and rewound motors. It helps in finding and predicting the faults in motors before it actually happens. This tester is used in the motor shop and in field to test the following:

- 1φ & 3φ Stators
- Stators Of Ceiling & Table Fans
- Stators Of BLDC Motor
- Stators Of Cooler And Pumps
- Field Coils Of Mixer Motors
- Stators Of AC And Fridge
- Automotive Starters & Alternators



The latest surge tester is in accordance with IEEE Standards and CE Compliant.



SPECIFICATIONS OF PC

- 17 Inch DELL Make Monitor
- ADVANTECH Make Industrial PC
- Windows 10 / MS Office 2015 / Anti Virus
- Dust Proof / Water Resistant / 0-60 C
- 6 USB Ports, VGA Port, LAN Port
- Wireless Keyboard & Mouse
- NATIONAL INSTRUMENT DAQ Cards
- NATIONAL INSTRUMENT Temperature Sensor

Test specifications

The Automatic Sequential Analyzer performs the tests in the following sequence & in case of a fault; it stops the sequence of tests & sets off a buzzer alarm to the user.

I) Resistance Test with Temperature Compensation

The Resistance test detects the variance of resistance values between the phases by applying a constant current to the winding and picking up the potential drop across it. The Resistance value is compensated to either 20 C or 25C ambient temperature as per the user requirements.

Four Resistance Range	
Range 1	0.001 - 1.999 Ohms
Range 2	0.01 - 19.99 Ohms
Range 3	0.1 - 199.9 Ohms
Range 4	0 - 1999 Ohms
Time	0-10 sec

II) Rotation Test

The Rotation detection test is useful in cases of stators. It uses die-cast rotors to check the direction of winding i.e. clockwise or counter-clockwise.

III) I.R (Megohm) Test

The I.R test checks the strength of the ground wall insulation that can be damaged due to dirt, carbon, moisture or weak wire insulation.

Test Voltage	500 Volts (DC)
Test Time	0-10 sec
I.R Limit	0-200 MΩ

Accessories

- Housed In Dust Free Enclosure
- Inhouse Constant Voltage & Frequency Supply Source
- Inhouse UPS For PC And Monitor

JABBALS  
Plot No. 20A/14-15 Industrial Area, N.I.T Faridabad -121001, INDIA  
Phone: +91 129 4021189, 4021190 • Email: jabbals7000@gmail.com

Web: www.jabbals.com

IV) H.V Flash Test

The H.V Flash test once again checks the strength of the ground wall insulation but at a higher applied voltage than the I.R test. If there is sudden surge in the leakage current it indicates that the ground wall insulation is weak and the test has failed.

Test Voltage	0-5000 V AC
Test Time	0-10 sec
Overtrip Leakage Limit	0.1-50 mAmps

V) Masterless Surge Test

The Automatic Surge test is performed on each phase of the stator to detect the turn-to-turn, coil-to-coil and phase-to-phase insulation and compared with the stored master waveform.

Max Surge Voltage	0 - 3000 Volts (Adjustable)
Max Pulse Current	180 Amps
Max Pulse Energy	0.2 J
Impulse Rise Time	0.1-0.2 μS
Impulse Repetition Rate	50 Hz
Vertical Sensitivity	250V/DIV 500V/DIV, 1000V
Sweep/Time base	10 uS - 10mS
Input Test Voltage	
Operating Voltage	230V ± 10%
Power Consumption	300W
Weight (full panel)	100kgs (approx)
Physical Dimensions	550 X 1700 X 650 (mm)

