

Iris Power Stator Wedge Analyzer (SWA)

Instrument to Identify Loose Stator Winding Wedges



The Iris Power SWA™ instrument allows maintenance personnel to easily and effectively assess the tightness of stator wedges in motors or generators. If the wedges are loose, this may allow stator coils or bars to vibrate in the slot, leading to insulation abrasion and a ground fault. Electronic measurement and storage enables easy and accurate trending of wedge tightness data from test to test.

Stator wedges are traditionally tested for tightness by tapping them with a hammer and listening to the sound produced. This method is slow and prone to inconsistency. Electronic wedge tightness evaluation is faster, more accurate and provides more consistent results. The Iris Power SWA instrument can be used to test most types of generator and motor stator slot wedges, including those with ripple springs.

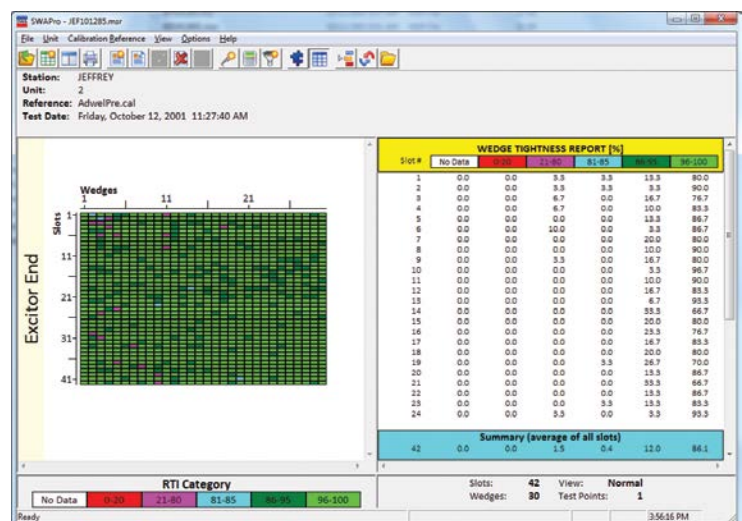
A hand-held probe automatically taps and measures each wedge approximately 30 times in three seconds. An accelerometer gathers the data and transmits it to the Iris Power SWA instrument. Results are presented on a computer in the form of numeric values and a color-coded tightness map.

A MODERN AND OBJECTIVE TEST OF STATOR CORE WEDGES

- Make well-informed maintenance decisions based upon reliable and consistent SWA data.
- Use for all rotating machinery, including wedging systems with ripple springs.
- In Standard test mode, tightness of each wedge is compared to predefined values while in Advanced mode, the tightness of each wedge can be compared to all other wedges in the winding, the wedges of another winding or any user selected external reference.
- Repeatable, objective, numeric test data removes subjectivity of hand tapping methods.
- Fast, easy wedge tightness testing and analysis.
- Permanent record of test data.
- Easy report generation.

THE ADVANCED WAY TO TEST WEDGE TIGHTNESS

The color-coded map makes it easy to identify suspect areas. Details are provided in a numeric tightness report. Operator may choose up to five ranking categories to classify wedge tightness.



Iris Power Stator Wedge Analyzer

FEATURES

- Great flexibility in test set-up
- Two operational modes: Standard and Advanced
- In-depth analyzing capabilities
- Printing of results
- Ability to export test data to spreadsheets, databases, or word processors

KIT CONTENTS

- Hand-held Probe
- Extension bars (7.6cm, 15.2cm, 22.8cm)
- Control Unit
- Software
 - Operating
 - Data Processing
 - Analysis
- Calibration Board
- Connection Cables
- 3mm Allen Key
- Operating Manual
- Rugged Carrying Case

SPECIFICATIONS

Power Supply	90-132/180-264V, 50/60Hz
Hand-held Probe Dimensions	Width - 25mm (1") Height - 160mm (6-1/4") Length - 145mm (5-3/4")
Minimum Wedge	Width 10mm (0.4")
Minimum Wedge	Length 50mm (2.0")
Slot Depth Adjustment	0mm - 20mm (10mm - 25mm wide) 0mm - 60mm (>25mm wide)
Connection Cable Length	15m (50')
Analyzer Dimensions	28cm x 18cm x 25cm (11" x 7" x 10")
Verification Block Dimensions	10 x 2.5 x 15cm (4" x 1" x 6")
Carrying Case Dimensions	63cm x 30cm x 51cm (25" x 12" x 20")
Weight (Entire Kit)	25 kg (55 lb)
Operating Temperature	+10° to +40°C (+50° to +104°F)
Min PC Requirements	Pentium II, 256MB, CD ROM, Windows™ 2000 or later



ORDER

SWA: Stator Wedge Analyzer

Includes: software, manual probe, electronics unit, leads, calibration block, manual and carrying case.

SWA525: SWA RIV Probe Module

For other options, contact your sales representative

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QUALITROL-IRIS POWER HAS BEEN THE WORLD LEADER IN MOTOR AND GENERATOR WINDING DIAGNOSTICS SINCE 1990, PROVIDING A FULL LINE OF ON-LINE AND OFF-LINE TOOLS, AS WELL AS COMMISSIONING AND CONSULTING SERVICES.



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