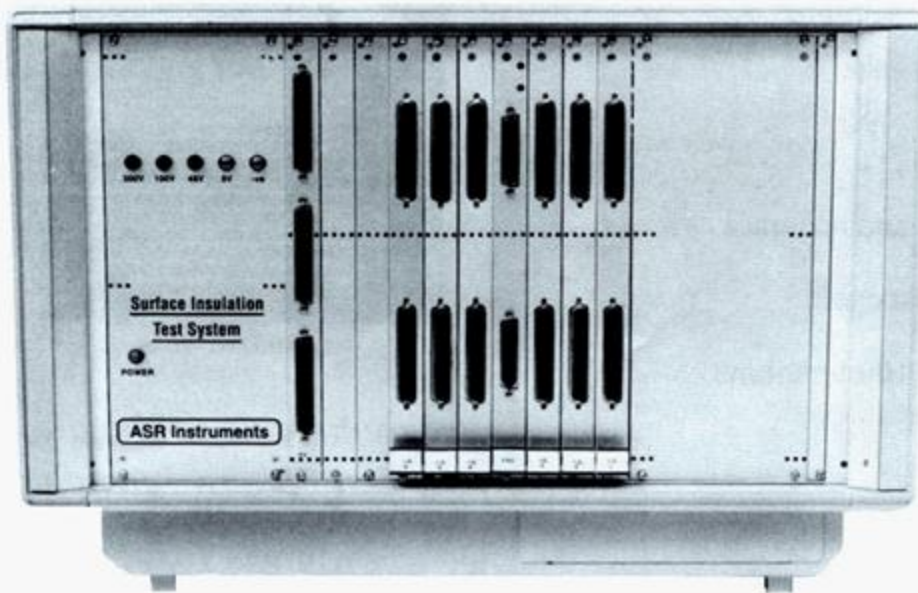


## *Surface Insulation Resistance Test System*

This new patented **SIR/MIR** & Electrochemical migration Test System uses an advanced design to measure up to 256 test coupons on circuit boards with high accuracy, repeatability and reliability. The system uses solid state switching instead of reed relays which eliminates leakage and enhances reliability. It is capable of measuring 1 megaohm to 100 million megaohm resistance with an accuracy of better than 3% of the reading.



Made in U.S.A.

### *System Description:*

Comes with a CRT, a keyboard and a printer for a stand-alone operation. The display shows test status, test values and bias, soak and test intervals in real time.

All the test programming is menu driven user friendly prompts.

Every input has its own individual test circuit. This allows test voltage to be applied to all test sites in parallel and the measurement is done in parallel. The test time for all 256 channels is reduced from several hours to less than 2 minutes.

### *Modular Design:*

The I/O plug in modules are totally independent and interchangeable. Individual I/O modules are configured for 16 test coupons each. The high voltage module supplies test and bias voltage for all 256 test sites via easy access DB 37 connectors.

Comes with complete hardware and software diagnostic routines and supporting document.

SIRTS design specifications reflect customer requests and requirements. State-of-the-art engineering and manufacturing ensure that SIRTS will perform reliably in a variety of environments.

### *Applications:*

Surface and moisture insulation of solder mask, solder paste, solder flux, conformal coating, PWB, PC boards and laminates.

### *Meets & Exceeds the Requirements for:*

ANSI/J-STD 001 TO 006, IPC-TM 650, IPC-SM 840, IPC-S-815 CL III, MIL-F-14256D, BELLCORE TR-NWT-000078, ASTM D-257, electrochemical migration, bulk resistivity and surface/volume conductivity.

### *Specifications:*

**Capacity:** 8 to 256 test sites

**Range:** 1 megaohm to 100 million megaohm (1 E 14 Ohms)

**Accuracy:** 3 % of reading

**Test and Bias Voltage:**  $\pm 10V$ ,  $\pm 48V$ ,  $\pm 100V$ ,  $\pm 500V$

**Computer interface:** RS232. Sends data at every test interval in a comma separated ascii format compatible with Lotus 123.

**Calibration:** Self calibrating and auto ranging.

**Memory:** Non-volatile

**Other:** includes real time clock, 14 inch CRT display, full size keyboard and a serial printer.