DESCRIPTION

The MIT-234c is designed to be a cost effective general Indicator Test Set providing capabilities for testing an extensive line of Avionics indicators. Instruments requiring the testing of Resolvers, Synchros, Galvanometric Movements and Lighting Circuits can be fully tested for operational performance in the Airborne Electrical Environment. Digital capabilities for Hybrid Instruments designed for operation in combined Analogue and Digital environments are provided. Specially Digital Signals complying with ARINC Characteristics 568, 582 and 429 are supplied for testing.
CAPABILITIES PROVIDED:

1. Eight Synchro Signals are provided for simultaneously driving eight Synchro Indicator Busses with either Fixed Synchro Angles or Variable Synchro Angles when selected by pushbutton switches.

2. Three Resolver Signals, provided on three Resolver Busses, are available for indicator Resolver testing with either Sine or Square Wave carrier simulations.

3. Dynamic testing is provided in simulating Angular Rates and Directions. Both Synchros and Resolver Angular Rates simulated are selectable in 1°/S Increments to 360°.

4. Galvanometric tests for both Microampere and Milliampere Meter Movements and Flags are provided with “built-in” Calibration features to test for the effects of Meter Movement Resistance and Current Deflection on performance.

5. A Two Word Digital Generator capable of supplying Digital Simulations of ARINC 568, 582 and 429 (Hi & Lo Frequencies) with both Static and Dynamic Rates is available. An Amplitude Control of Digital Level is provided to test Indicator Level Tolerance.

6. Circuit Breakers are supplied to protect the 115 VAC Inputs (2 each) as well as the Variable Amplitude Low Voltage Powers used by the Indicator Under Test (UUT) for Power, Reference or Lighting.

7. Test Points (110 Test Points) accessing all Pins of the Output Connectors to permit Viewing Signal and Power Flows between the Test Set and the Indicator Under Test (UUT).

8. Built-In Equipment:
   A. Digital Multimeter: for Resistance, Voltage and Current testing. Front Panel Switching provided permits the measurement of power consumed by the Indicator Under Test (UUT). It also permits Meter Movement testing to determine Deflection performance in terms of Current Input.
   B. Angle Position Indicator: an API is provided permitting testing of Internally generated Synchro/Resolver Signals as well as External Signals by Front Panel Switching.

PHYSICAL CHARACTERISTICS:

Dimensions: W. 20 5/16” D. 22 1/2” H. 19 1/4” (with Case)  
W. 19” D. 21” H. 17” (for Rack Mounting)

Weight: 75 lbs. (with Case) 32 lbs. (for Rack Mounting)