INSTRUCTION MANUAL

ANTENNA SWITCHING

UNIT

MODEL SU-30

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ANTENNA SWITCHING UNIT

ELECTRO-METRICS

MODEL SU-30

SERIAL NO: N/A

ELECTRO-METRICS CORPORATION

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MANUAL REV. NO: SU30-1195 **ISSUE DATE: NOVEMBER 01 1995**

WARRANTY

This Model SU-30 Antenna Switching Unit is warranted for a period of 12 months (USA only) from date of shipment against defective materials and workmanship. This warranty is limited to the repair of or replacement of defective parts and is void if unauthorized repair or modification is attempted. Repairs for damage due to misuse or abnormal operating conditions will be performed at the factory and will be billed at our commercial hourly rates. Our estimate will be provided before the work is started.

DESCRIPTION AND USE ANTENNA SWITCHING UNIT ELECTRO-METRICS MODEL SU-30

1.0 Introduction

The SU-30 Antenna Switching Unit is a remotely controlled device used with the Electro-Metrics Model EMC-30 Interference Analyzer as part of a computer-controlled EMI test system.

In normal use, the control cable of the SU-30 is connected to the Antenna Connector (A13J1) on the rear panel of the EMC-30. The operation of the SU-30 is controlled by commands issued by an external computer via the rear panel GPIB/IEEE-488 STANDARD 1978 INTERFACE BUS of the EMC-30. The software required to operate the SU-30 is part of the OS-30 software series for the EMC-30.

NOTE: THE SU-30 CAN ONLY BE CONTROLLED USING COMMANDS ISSUED BY AN EXTERNAL COMPUTER. THE SU-30 WILL NOT OPERATE WITH THE EMC-30 IN THE LOCAL MODE OF OPERATION.

The SU-30 is designed to switch the single output connector between six signal input connectors from DC to 1 GHz. The output connector is normally connected to the RF Input of the EMC-30 while the input connectors are connected to antennas, generators, or other pickup/signal generating devices.

The SU-30 has three 19-pin connectors, one for the control cable from the EMC-30 (supplies the control commands, logic voltages, and supply voltages to the SU-30) while the other two are for the control cables used with the ALR-30 and RVR-30 antennas.

One of the two antenna control connectors can be used to connect another SU-30 in series. This allows, with the necessary software, the ability to switch between 12 different signal inputs. The user, however, must physically switch between the output connectors of the two SU-30s.

In addition, up to three SU-30s can be controlled in a single setup using the Electro-Metrics Model EM-SUS-30 (SWITCHING UNIT SELECTOR).

2.0 SU-30 Connectors

SU-30 PORTS/CONNECTORS	ANTENNA/PROBE
J1	ALR-30, LISN, MDS-21, PCL-30, RVA-30, RVR-30
J2	BIA-30
J3	LCA-30, LPA-30
J4	OPTIONAL
J5	OPTIONAL
J6	EMC-30

NOTE: **Non-standard antennas must be connected as directed by the software.**