CIRCUITRY IDENTICAL FOR INTERFACES 1 & 2

MODEL 47A
DUAL 2-WIRE ANALOG AUDIO TO
INTERCOM CIRCUIT

BLOCK DIAGRAM
DUAL 2-WIRE ANALOG AUDIO INTERFACE BLOCK DIAGRAM

STUDIO TECHNOLOGIES, INC.

MODEL 47A
DUAL 2-WIRE ANALOG AUDIO TO 4-WIRE ANALOG AUDIO INTERFACE

1. IEC 320 C14 INLET
2. 50/60Hz OPERATION
3. 100-240V AC MAINS INPUT

**SUPPLY**
- +5V
- -5V

**MEMORY**
- EEPROM

**MICRO-CONTROLLER INTEGRATED CIRCUIT (MCU)**

**DATA SIGNALS TO DEVICES**

**A/D INPUTS**

**POWER SUPPLY**
- +36V
- +3.3V
- +5V
- -5V

**INPUTS**
* CONNECTOR LOCATED ON PRINTED CIRCUIT BOARD ASSEMBLY

**DOUBLE 4X1 SWITCH**
- TONE1-1
- TONE2-1
- TONE1-2
- TONE2-2
- CH1-1
- CH2-1
- CH1-2
- CH2-2

**DATA SIGNALS TO DEVICES**

**TYPICAL OF 9 SWITCHES**

**TYPICAL OF 12 SWITCHES**

**SINE-WAVE TONE GENERATOR**

**FULL-WAVE LEVEL DETECTOR**

**REMOTE CONTROL INPUT**

**AUTO NULL INTERFACE 1**

**AUTO NULL INTERFACE 2**

**CONFIGURATION SWITCHES**
- TYPICAL OF 12

**STATUS LEDS**
- TYPICAL OF 0