**ACO-4500 Installation and Cabling**

**Rack Mounting**

**Warning:** Do not use the support brackets to carry the ACO-4500. The brackets are not primarily designed for this purpose, and property damage or personal injury may result.

**To install the support brackets**
1. Select a mounting position that allows rear support bars to slide into slots of the brackets.
2. Choose the position that suits the cabinet depth and gives approximately a 0.5” projection beyond the previously mounted bracket.
3. Using four screws per bracket, attach both bars.
4. Mount the frame to the front rails of the rack cabinet using rack screws.
5. At the rear of the cabinet:
   a) Slide the bracket slots over the rear of the support bars.
   b) Secure to the cabinet rear rails with rack screws.

**Specifications**

**Physical Specifications**
- Clearance: Side: 2.00” (50mm), Rear: 3.00” (75mm)
- Height: 1.71” (43.5mm)
- Width: 19.00” (482.5mm)
- Depth: 15.95” (405mm)
- Temperature: Op: 0°C to +40°C, Non-op: -20°C to +45°C

**BNC Channels (Per Channel)**
- Connector Type: 75ohm BNC
- Return Loss: >20dB to 1GHz
- Max. Switched Voltage: 30V DC (30V AC)
- Max. Switched Current: 0.5A
- Relay Switch Time: Set time: max. 3.5ms, Release time: max. 2.5ms
- Insertion Delay: <1ms

**Ethernet Interface**
- Connector Type: RJ45 - 8P8C
- IEEE Standards Compliance: 802.3-1980, 802.3u-1995

**AC Power Source**
- Operational Voltage Range: 100-230VAC 50-60Hz
- Absolute Limits Voltage Range: 90-264VAC, 47-63Hz
- Operational AC Current (each PSU): <130mA @ 230VAC, <200mA @ 120VAC
- Surge Current (each PSU): <20A @ 120VAC
- Power Consumption (dual PSU): 46VA (21W)

**Balanced (Unmonitored Channels, Relay)**
- Connector Type: MicroClasp™ 2mm
- Return Loss: >17dB to 50MHz
- Max. Switched Voltage: 48 V DC (24V AC)
- Max. Switched Current: 1A
- Relay Switch Time: Set time: max. 3ms, Release time: max. 3ms, Set/Release time: min. 9mS
- Insertion Delay: <1ns

**Communications Cabling**

**Note:** The GPI/RS-232 port is not implemented.

**Power Connections**

**Note:** The ACO-4500 powers on automatically when the power supply is plugged in.
ACO-4500 Installation and Cabling

Connecting an SRG-4500

To connect the Primary SRG-4500 to the ACO-4500
1. Connect one end of an Interface Cable (PN 4400CR-100-01) to the ACO-4500 rear panel.
2. Connect the other end of the same Interface Cable to the bottom 30-pin connector on the ACO-4500 rear panel.

To connect the Backup SRG-4500 to the ACO-4500
1. Connect one end of an Interface Cable (PN 4400CR-100-01) to the Backup SRG-4500 rear panel.
2. Connect the other end of the same Interface Cable to the top 30-pin connector on the ACO-4500 rear panel.

Installing the Breakout PCB

Set the IP Address

Note: You must set the IP address of the ACO-4500 from the front control panel after power up. Contact your facility Network Administrator for the required network settings.

To set the IP Address for the ACO-4500
1. Use the Rotary/Push Control dial on the front panel to display the Network Menu on the front control panel:
   Operational Menu > System Menu > Network Menu.

   Network Menu

   | IP Address   | 000.000.000.000 |
   | Subnet Mask  | 000.000.000.000 |
   | Gateway      | 000.000.000.000 |
   | MAC Address  | 00:00:00:00:00:00 |

2. Use the Rotary/Push Control dial to set the IP Address, Subnet Mask, Gateway, and MAC Address for the ACO-4500.
3. Use the Back button to return to the Operational Menu.