

AURAL STUDIO-TRANSMITTER LINK ACCESSORIES



Bulletin 253B

AUTOMATIC TRANSFER PANELS



THE MODEL TPT-2 TRANSFER PANEL TRANSMITTER enables automatic transfer from a main to an alternate STL transmitter. The TPT-2 senses the RF power output of the operating transmitter and automatically switches RF output and program input to the alternate transmitter in the event of a carrier failure. Front-panel selection of "Main" and "Alternate" status allows alternating operation of the two transmitters. Remote control provisions are incorporated in the TPT-2 to remove the transmitters from the radiate mode. The panel is 1 3/4" (4.4 cm) high, 19" (48.4 cm) wide, and 5" (12.7 cm) deep. Power requirements are 120/240 VAC, 50-60 Hz, or +13.5 VDC. When ordering the Model TPT-2 Transfer Panel Transmitter, please specify the model of Moseley STL transmitters to be used with the panel.



THE MODEL TPR-2 TRANSFER PANEL RECEIVER provides automatic switching of program and multiplex outputs from aural studio-transmitter link receivers. Monitoring the carrier-operated squelch relays in the main and alternate receivers, switching occurs with a carrier failure. Monaural program audio or composite signals can be accommodated by the unit. Because both receivers must be active to allow use of the TPR-2, separate receiving antennas or a power divider are required. If separate antennas are not used, the PD-1 or PD-2 Power Dividers allow operation of both receivers from one common antenna. The panel is 1 3/4" (4.4 cm) high, 19" (48.4 cm) wide, and 5" (12.7 cm) deep. Power requirements are 120/240 VAC, 50-60 Hz or +13.5 VDC.

CONTROL PANEL



THE MODEL ECP-5 EXTENSION CONTROL PANEL functions with the Models PCL-505 and PCL-505/C STL transmitters. Control of carrier and metering of forward power and AFC voltage are provided on an extension basis by the ECP-5. A five-conductor cable is required to interconnect the ECP-5 and the PCL-505 transmitter. The panel is 19" (48.4 cm) wide and 1 3/4" (4.4 cm) high.

POWER DIVIDER, TRANSMISSION LINE, CONNECTION KITS

THE MODEL PD-1000 POWER DIVIDER. Amtex Microwave 10 MHz - 1000 MHz with N type female connectors. Facilitates coupling two STL or RPL- () Receivers to common antenna. Supplied with two 3-foot RG-8/U pigtail assemblies. Specifications: 3.8 dB per leg maximum attenuation 500-1000 MHz; 3.6 dB per leg 10-500 MHz.

®Trademark Andrew Corporation

ANDREW HELIAX® low-loss foam dielectric coaxial transmission line. Attenuation: LDF4-50 1/2", 2.4 dB; LDF5-50 7/8", 1.4 dB (per 100 feet at 950 MHz).

CONNECTOR KIT, includes two Type N female connectors and two 3-foot RF-8/U pigtails. One kit required per antenna. For LDF4-50, use KTL-6; for LDF5-50, use KTL-7.

MOSELEY ASSOCIATES, INC.

Studio Transmitter Link Accessories

THE MODEL ICU- () ISOCOUPLER SERIES is designated to facilitate the connection of a remote pickup transmitter or receiver, or an aural studio-transmitter link transmitter or receiver to an antenna mounted on an underground standard AM broadcast tower. As the capacitive loading presented to the broadcast tower is minimal, the effect on the base impedance will be negligible. The efficiency of the isocoupler at the designed operating frequency is greater than 90%. The isocoupler eliminates the need to employ a quarter-wavelength insulated transmission line section when installing either a remote pickup or STL antenna on a standard broadcast tower. The isocouplers are rated to withstand an instantaneous 15,000 volt peak. (Caution: In computing the electrical stress across the isocoupler, use the peak value, not rms, and allow a margin for overmodulation peaks.) They are housed in rugged polyvinyl chloride tubes. The end plates are sealed, and the entire unit is painted with epoxy. Type N female RF fittings are used on all isocouplers.

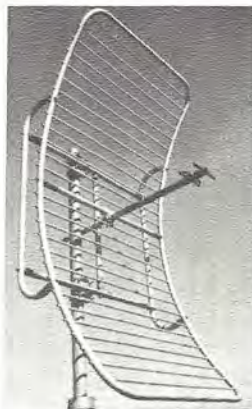


Model	Operating Frequency ¹	Peak Voltage	Capacity ²	Length	Diameter	Weight
ICU-1A	940-960 MHz	15,000	9 pf	5" (12.7cm)	3" (7.6cm)	¾ lb
ICU-2A	450-470 MHz	15,000	3.5 pf	4" (10.2cm)	3" (7.6cm)	½ lb
ICU-3A	148-172 MHz	15,000	3.5 pf	6 ½" (16.5cm)	3" (7.5cm)	½ lb

¹All isocouplers are designed to carry in excess of 60 watts continuous power at rated frequency.

²Measured between ends of isocoupler with center pin of UG-58A/U connector shorted to body.

PRECISION ANTENNAS by Scala Radio Corporation are suggested for use with the Moseley Aural STL equipment. Weighing only 25 pounds, the PR-450U antenna mounts easily and is ruggedly built. An exclusive balun feed assures equal distribution of current in the driven element. The PR-450U is anodized and dichromate dipped for increased protection against corrosive environments. Impedance is 50 ohms, and a Type N RF female connector is used.



ANTENNA—SCALA PR-450U

Gain	17.5 dB over dipole radiator (950MHz) 15 dB over dipole radiator (450 MHz)
Physical Aperture	36" x 67" (91.4 cm x 107.2 cm)
Beamwidth	E-plane 25°, H-plane 14° (950 MHz)
(½ power points)	E-plane 30°, H-plane 22° (450 MHz)
Mounting	Antenna fastens to a 2" circular support—mounting hardware included
Wind Thrust	304 pounds at 100 mph with ¼" radial ice
Shipping Information	70-1/8" x 37-1/8" x 20-3/8" (178.1 cm x 94.9 cm x 51.8 cm); 30.6 cubic feet (8.7 m³); 75 lbs. (27.9 kg)

OTHER ACCESSORIES

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| <input type="checkbox"/> Yagi Antennas for 148 MHz to 470 MHz | <input type="checkbox"/> Receiver Multicouplers | <input type="checkbox"/> Transmission Line and Connectors |
| <input type="checkbox"/> Grid and Solid Parabolic Antennas | <input type="checkbox"/> Transmitter Multicouplers and Duplexers | |



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