

SChFMATIC OF THE 270A OUTPUT SWITCHING PANEL

A development of Befl Teleptione Laboratories, the resparch laboratories of the Ameriman Tolephone and Telegraph Company and the IV estern Electric Company
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## International Standard Electric Corponation

Western Electric
Output Switching Panel

## 270 A

For Radio Telephone Broalcasting Systems


270A IUUTPUT SWITCHING PANEL

THE Western Electric 270A Ontpul 1 Switching Pamel provides facilities for the assignment of :ny one, combination of two or maximum of three speech input antphitier channels to any one of thife outgoing circuits. These output circoits may he used for local andition purposes, or for direet connection to an adjacent calio transmitter. They may also le used in conjunciun with reveatiug coils aud telephone lines to furnish progratms to net works or to ratio transmitters situated remotely from the studio.
The 270 A panel is des gned to oprerate hetween 5 (11) olm imperances and will accommodate input power levels as high as 24 milliwatts $(+16$ ath on a 6 milliwat "zeru level" lasis). Resistauce networks maintain constant impetance relations in the comnecting circuits irrespective of the switching combinations employed. The in-
ertion lows introntuced liy these compling networks is 10 til.
The components are assented on a re cessed metal pamel, equipped with a face mat which serves as a momuting for the designation plate associated with the con trol keys and inulicating lamps
There are six lever tylue hers and three signal lamps. Three heys are emploved to assign the various stutho chamels to the ourgoing eircuits. Each key is connected to a particnlar stadio amplifier system or chamel amb is locking in hoth up and down positious. The other three keys and the three signal lamps are for control of the output circuits of three studio channels by means of relays external to the panel. These kevs are non-lockint in the " O " " and locking in the " O " and locking in the "OII" positions.
Four terminal strips are providel for ex ternal comections.

rear tiew of the 270A outhut switching panel



schematic of the ztoa outiut switching fanel.

A development of Bell Telephone Lahoratories, the research lahoratories of the American Telephone and Telegraph Company and the Western Electric Company


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THE Western Electric 270A Ontpu1 Switching Pamel provides facilities for the assignment of any one. contintation of two or miximan of ant plitier chamels ponll cirens. These ompur circmits may direct connection to an anjacent radio transmiller. They may also le used in conjunction with repeatity coils and telephone lines to furuish progrums to networks or to radio tramsmilters situatell rentotely from the studio.

The 270 A panel is designel to operate between 500 ohm impedances and will accommorate input poiver levels as high as 24 milliwatts $(+16$ dhe on a 6 milliwatt "zero level" lrasis). Resistance networks maintain constant impedance relations in the connecting circuits irrespective of the switching combinations employed. The in-
sertion loss introduced loy these coupling et works is 10 ،ll,
The components are ansemblel on a recessed metal panel, equipped with a face mat which serves as a mombing for the - lesignation plate associated with the control keys aml indicating lamps.
There are six lever type keys und three signal lamps. Three keys are employed to assign the various stulio eltamels to the outgoing circuits. Each key is connected to a particular strdio amplifier system or chamel and is loching in both up and down positions. The other three keys and the three signal lamps are for control of the oulput circuits of three studio channels by means of relavs exterual to the pamel. These keys are non-locking it the "On" positions and locking in the "OIf" positions.
Four terminal strips are provided for external comections.

rear view of the 270a output switching panel

## SPECIFICATIONS:

Input: luput impedance is 5 (1) olms for each of liree availathe eircuits. Will accommodate input levels up to 24 milliwatts.
Output: Three outpur circuits of 500 ohms each
Power supply: 12 volts lattery supply is required for the operation of the celay control eircuit if this is employed for remote control of the studio ouphul chammels.
Dimensions: $1914^{\prime \prime}$ wide by $51 / 4^{\prime \prime}$ high
Mounting: Standard relay rack or equipment cabbine
Weight: Approximately $71 / 2$ pominls.
Finish : Dark Gray or black mat as specified:

> 270A-15-Gray mal
270A-3 -Black mat
$\square$

dimensional drawing of the rioa outidut switeling panki

unctional diagram, zioa output switching fane

