# SUMMARY OF RatioTran* MODELS

The various switch type models of Standard Ratio Transformers have been designed to cover specific applications. Functionally, all models are basically the same. The principal differences are in mechanical construction and such details as the type of switch, number of decades, degree of resolution, maximum input voltage allowable, form factor and other details sometimes important to the user.

The following table has been prepared, segregating the units into three basic classifications, according to their electrical performance to aid the user in selecting the proper unit for his particular application.

## LOW VOLTAGE, HIGH FREQUENCY GROUP

Maximum input voltage 0.35 x F (350 volts max.) F=frequency in cps.

| MODEL NO. | SWITCH TYPE | NO. OF DECADES | SIGNIFICANT FIGURES OF RESOLUTION | TYPE OF POTENTIOMETER | REMARKS |
|---|---|---|---|---|---|
| RT-1 | Push Button | 3 | 6 | 10 turn | Three decade unit with 10 turn potentiometer. Utilizes push button switches. For low voltage input over wide frequency range. Numbers engraved on push buttons. |
| RT-2 | Push Button | 5 | 5 | None | Five decade unit. No potentiometer. For low voltage, wide frequency range use. Numbers engraved on push buttons. |
| RT-5 | Rotary | 5 | 6 | 1 turn | Five decade unit with one turn potentiometer. Extremely good resolution. Numbers available through window in panel. Most economical and proper instrument where high resolution, high accuracy and wide frequency range is desired. |
| RT-6 | Rotary **(Heavy Duty)** | 5 | 5 | None | Five decade unit. No potentiometer. For low voltage, wide frequency use. Contains **heavy duty,** rotary switches with numbers on front panel. |
| RT-7 | Rotary **(Heavy Duty)** | 5 | 6 | 1 turn | Five decades and one turn potentiometer. Extremely good resolution. For low voltage, wide frequency range use. Numbers on front panel. **Heavy duty** rotary switches. |
| RT-10R | Rotary | 3 | 6 | 10 turn | 3½" High Rack Panel. For low voltage, wide frequency range. Low price. Terminals front and rear. |
| RT-11R | Rotary **(Heavy Duty** | 5 | 6 | 1 turn | 3½" High Rack Panel. Terminals front and rear. |
| RT-12R | Rotary **(Heavy Duty)** | 5 | 6 | 1 turn | Militarized version of RT-11R. Glass epon switch insulation. Coils potted in epoxy resin. |
| RT-13R | Rotary **(Heavy Duty)** | 5 | 5 | None | 3½" High Rack Panel. Terminals front and rear. |
| CRT-1 CRT-4 | Coaxial | 3 | 6 | 10 turn | Three decades with a 10 turn pot. Uses coaxial switches to conserve panel mounting space. For low voltage, high frequency use. Recommended where panel space and weight must be kept to a minimum. Servo mount. |
| CRT-2-3 | Coaxial | 3 | 5 | 1 turn | Same as CRT-1 except has 1 turn pot. |
| RRT-1 (302) | Shaft Driven | 3 | 5 | Interpolating | A 1000 turn sealed shaft driven unit designed particularly for positioning and calibration applications. |
| RRT-2 (303) | Shaft Driven | 2 | 4 | Interpolating | Same as RRT-1 except 100 turns. |
| SRT-1 (400) | Remote Sequential Stepping Relays | 5 | 5 | None | Uses 24V DC gold contact decade stepping relay switches for remote operation. Readout contacts provided. |
| BRT-1 (222) | 18 bit binary remote relay operated | 18 bit 6 octals | $\frac{1}{2^{18}}$ | None | 18 bit unit arranged in 6 octals. Gold contact relays designed to operate from IBM card or punched tape as a digital to analog converter. 24 V DC. |
| BRT-2 (309) | Binary to Decimal conversion unit. Remote relay control | 3 | 3 | None | Converts binary code to decimal, 3 decade. Contains phase inversion relay and readout contacts. 24 V DC. |

* *Trademark*