

Voting Receiver

RVR2000 Series

Compact wall-mount/desktop remote voting receiver

The RVR2000 Series Wall-mount / Desktop Remote Receiver is a compact self-contained receiver with built-in voting tone encoder and AC power supply. Like its rack-mounted counterpart (the RFC Series), the RVR2000 features rugged, field-proven modular construction, PC programming/metering facilities and alarms. All required parameters, including voter tone frequency and level, are externally programmable / adjustable (if used within a 5 MHz bandwidth from supplied frequency). The RVR2000 supports CTCSS and DCS formats (with optional board), and may be configured for special applications (please contact factory for details). The RVR2000 interfaces to a dedicated the wire-line circuit via a (supplied) "D" to modular cable. Optional internally mounted tone / DC remote control facilities are available.

- Self-contained compact unit; 315W X 323D (12.4" X 12.72") footprint.
- Modular construction.
- Built-in 1950 / 2175 Hz externally selectable voting tone encoder.
- 2-Wire transformer isolated output (full complement of control and output lines accessible at rear-mounted 25-pin "D" connector).
- Built-in 110V or 220V AC power supply with detachable cord (IEC-320 connector).
- Filed programmable via front panel mounted 9-pin "D" connector.
- Front panel mounted monitor speaker.
- Front panel mounted line and tone level controls.
- Desktop or wall-mountable.



"Leading the evolution of radio's next generation".

Specifications

Frequency Bands	Low/Mid	VHF	UHF Low	UHF	800/900
Frequency	66-88MHz	136-156MHz	330-365MHz	400-430MHz	800-830MHz
		148-174MHz	350-380MHz	450-490MHz	850-870MHz
			375-400MHz	485-520MHz	896-930MHz
Channel Capacity	1"	1"	1"	1"	1"
*Multi-channel Optional	IBCD and line per channel programming via rear-mounted 25-pin "D" connector (up to 99 CH)				
Channel Spacing/Progr. Steps	2.5kHz; 5kHz; 6.25kHz; 7.5kHz; 12.5kHz; 15kHz; 20kHz; 25kHz; 30kHz; 50kHz				
Programming	PC programmable via front panel mounted 9-pin "D" connector; requires programming kit				
RF Port	Rear-mounted "N" female connector, 50Ω				
CTCSS	Fully programmable, EIA (tone/channel if multi-channel option)				
DCS	Available as option				
Voter Encoder Tone	Rear panel selectable 1950/2175Hz, others internally programmable				
Audio Response	Selectable; flat/750μ Sec de-emphasis (+1 -3dB, 300-3000Hz)				
Audio Interface	600-Ohm, 2-wire loop, +10dBm adjustable. Hi Z. through 25-pin "D" connector				
Monitor Speaker	Front panel mounted monitor speaker with volume control				
Audio Distortion	Less than 3% at 60% deviation and 750 μ Sec de-emphasis				
Metering & Diagnostics	Front panel test/programming connector for receiver status and alignment (requires PC)				
Sensitivity (25kHz)	.2μV for 12dB Sinad, or .28μV for 20dB quieting				
Spurious & Image Rejection	-90dB				
Selectivity	80dB at 25kHz, 70dB at 12.5kHz				
Intermodulation RS-204-C	80dB	80dB	80dB	80dB	75dB
Frequency Spread w/o Retune (for 1dB degradation)	15MHz	20MHz	5MHz	10MHz	25MHz
Modulation Acceptance	7.5 and 3.75kHz (others optional)				
Squelch	Noise squelch adjustable from 6-26dB Sinad, carrier squelch adjustable from 1-200μV				
COS Output	Multi-functional opto-coupled				
Frequency Stability (Standard)	5ppm (2ppm opt)	5ppm (2ppm opt)	1ppm	1ppm	1ppm
Temperature Range	-30 to +60°C	-30 to +60°C	-30 to +60°C	-30 to +60°C	-30 to +60°C
Power Supply	110V, 60Hz, or 220V 50Hz, 1.3A/.8A switching Power Supply with detachable AC cord. Providing 13.8V DC at 8 A (6.5A continuous)				
Power Switch	Front panel mounted AC On/Off switch				
Indicators	Front panel mounted LED indicators (Alarm, Carrier & Power)				
Other Controls	Monitor Switch				
Serviceability	Easily serviceable, fully modular construction				
Dimensions	315mm (W) x 323mm (D) x 70mm (H) - less connectors, including feet (12.4" x 12.72" x 2.73"				
Net Weight	5.0Kg typical (11 lbs)				

