



SURVEILLANCE AND COMMUNICATIONS RECEIVER CR91

The Model CR91 is a synthesized, programmable, digitally tuned solid state SSB/ISB receiver, covering the frequency range of 10 kHz to 30 MHz. It is designed for continuous service in fixed, mobile or shipborne applications.

In designing this receiver great importance has been attached to its ability to be integrated into complex computer controlled communications systems.

The flexibility of the receiver is enhanced by the provision of a selection of optional items which may be added internally in the form of plug-in printed circuit boards or externally in separate 19" units.

The front panel layout and tuning speeds have been optimized for surveillance applications.

Specific channel settings can be preprogrammed with possibility of preprogramming during traffic.

Full remote control with revertive checking is provided at speeds of 50 – 2400 Baud. The remote control unit uses a front panel identical with that of the receiver itself. Hence, the operator will not notice any difference when operating either locally at the receiver or from the remote control position.

The receiver CR91 is built up with modules which plug into a mother board. All modules, with the exception of the power supply module, are printed circuit boards and are accessible from the rear of the receiver. No soldering or realignment is required when replacing them.

The front panel is connected to the receiver via a ribbon cable and can be used apart from the receiver.

CR 91 Receiver Features

- Synthesized tuning down to 1 Hz increments plus synthesized BFO.
- Tuning by single knob with three different speeds.
- Antenna selection from the front panel.
- Digital read out of all receiver settings on a LED display panel.
- Instantaneous keyboard selection of up to 100 preprogrammed channels as standard.
- Internal battery maintains stored settings in case of power failure.
- Modular construction with plug-in PC-boards.
- Computer controllable via RS232 interface using ASCII code.
- RF overload up to 20 W without damage.
- Fast-locking synthesizer.
- Excellent large signal handling capability.
- Automatic and manual scanning of stored channels.
- Rugged design with temperature range from -30 to $+55^{\circ}\text{C}$
- Internal frequency offset allows AFSK to be received with narrow IF filters
- Extensive range of accessories and additional features
- Easy maintenance, no soldering or realignment required when replacing modules.