

## Radio DTMF Decoder Model 17-95166

### Application:

Designed to decode DTMF digits broadcast over VHF radio channels, the Radio DTMF Decoder is typically used in testing of the Man-Down feature of Remote Controlled Locomotive (RCL) systems. It provides a quick and easy method to verify that the RCL system is sending the emergency DTMF tones during a “man down” event.

### Features:

- Easily portable - Built into rugged “Pelican” case
- Decodes DTMF digits received on built-in VHF radio
- Up to 8 VHF radio channels, switch selectable
- Speaker, with volume control, to monitor radio audio
- Rechargeable gel cell battery
- LCD Display
  - Decoded DTMF Digits, up to 20 digits, then scrolls.
  - Battery status
- Push button to clear decoded DTMF digits.
- BNC antenna connector on front panel
- Battery Charger connector on front panel
- Includes storage space in case for battery charger, antenna and instructions.

### Operation

Operation is simple. Open the case, attach the antenna, turn on power and select radio channel. DTMF tones can be heard over the speaker as they are being decoded and displayed on the top line of the LCD.

The battery condition is displayed on the second line of the LCD, whenever power is applied. The built-in gel cell battery can power the unit for many hours. An AC powered battery charger is included and



can be stored inside the unit. The Radio DTMF Decoder can be used while the battery charger is attached, as long as the battery has at least a minimal charge.

### **Physical Description:**

The Radio DTMF Decoder is built in a heavy duty Pelican case, offering shock and weather resistance. The front panel is constructed of steel with silk screened legend. The 2 x 20 LCD display is protected by a clear polycarbonate window.

The radio is programmed at the factory with up to 8 VHF channels of the customer's choosing. A rotary switch provides the user with rapid channel selection. A dsub 15 connector on the front panel allows convenient reprogramming of the radio, for example, to reprogram the radio channels.

### **Specifications:**

Radio: Ritron DTX Plus VHF transceiver ("transmit" mode not used)

Case: Pelican 1200, 10.6" x 9.7" x 4.9", rugged & waterproof

Battery: 12V, 2 amp hour gel cell rechargeable.

Charger: Automatic Fast/Float 300 mA charger included

Speaker: Compact, water-resistant speaker

LCD Display: 2 x 20 monochrome display. Top row displays decoded DTMF digits, bottom row displays battery life.

Push button to clear decoded DTMF digits from LCD display.

BNC Antenna Connector on front panel, antenna included

### **Ordering Information:**

17-95166	Radio DTMF Decoder, with antenna and battery charger
82-99004B	Battery Charger (dual rate—fast/float charge)
ERX-3.0100-000	Antenna, 6", VHF, 155—164 MHz, EXB155BN
ERX-3.0100-001	Antenna, 6", VHF, 150—162 MHz, EXB150BN
ERX-3.0100-002	Antenna, 6", VHF, 150-162 MHz, w/SkirtModel EXB150BNX
ERX-0.0101-200	Ritron DTX Plus radio, Model DTX-154-OB6D w/Long Screw Mod, 7.5VDC
ERX-1.0100-000	Ritron Programming Kit, Model DTXP-PCPK-2.0, including software and programming cable Note: The programming cable is equipped with a DB 25 connector for the connection to the computer. A dB to USB 2 adapter is available.
ERX-1.0100-00	Adapter for use with Programming Cable, Model 2147C002. Converts from dB to USB.