

TUNNEL VOICE™ FD4

Facilitates VHF Two-Way Voice Communications

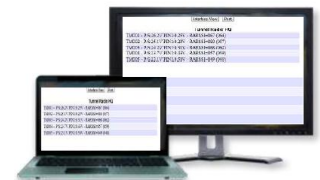
Dependable communication between dispatch, trains, and maintenance crews is essential to safety and productivity. Tunnel Voice FD4 offers **unbroken** simplex or duplex operation through any length of tunnel or mountain pass, all within the AAR 160 MHz band.



FEATURES and BENEFITS

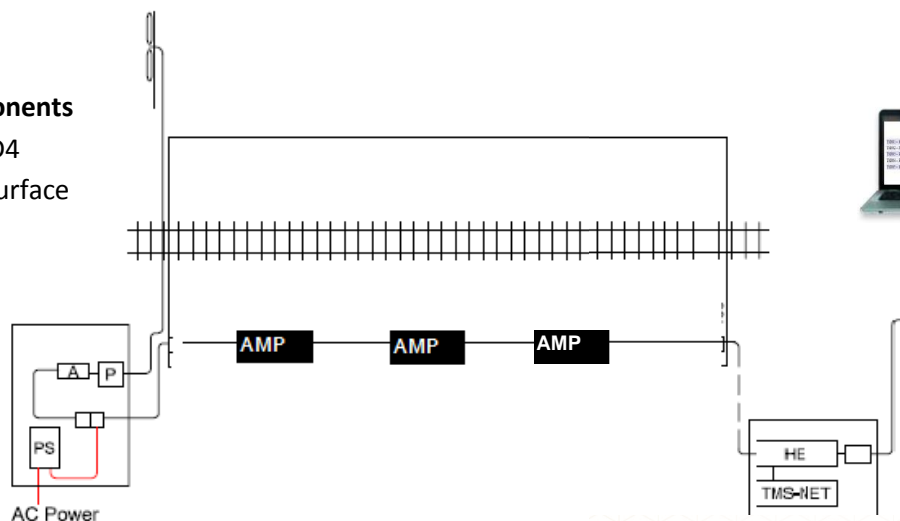
- 150 – 170 MHz, includes all AAR channels
- Continuous voice communications – regardless of tunnel length
- Advanced VHF FD4 amplifier technology
- Digital Narrow Band compatible comes standard
- Seamless full duplex radio coverage from surface to underground
- RF dead spots eliminated
- Dependable communications between dispatch, trains, and maintenance crews

Diagnostic & Monitoring Local & Remote Access



Typical System Components

Base Interface Unit, FD4
Amplifier, Cable and Surface
Antennas





Tunnel Voice™ FD4

U.S. Patent Number 6041216 A

SPECIFICATIONS

Base Interface

Part Number	TR-IFU2-FD4-12V TR-IFU2-FD4-28V
Channel Capacity	2 Port
System Consumption	1.25 AMPS

Amplifier

Part Number	TR-LA6-Rail
Dimensions	4.75" x 8" x 3.5"
RF Gain	22 db 160/220 MHz
Voltage	14 VDC @ 60mA

Cable

Part Number	TR-1505-CBL
Maximum demonstrated system length, ft	34 Amplifiers, 41,000 feet

TMS & TMS NET Specifications (typical)

Remote diagnostics	Tunnel Monitoring System (TMS), uplink option
Network Interface	Part Number: TR-TMS-Net, Network Option

About Us

Tunnel Radio of America® creates leading-edge technologies that serve the needs of railroad systems worldwide. We have the technology to help you stay on top. Since 1993, when we launched our first railroad system, we have expanded our product line to completely encompass their changing needs. Tunnel Radio is doing our part to reduce fuel consumption, increase capacity and reduce the freight traffic on the nation's highways. Other countries are quickly following our lead.



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