



## SALES SERVICE INFORMATION

The Technical Material Corporation  
Mamaroneck New York

35B 115

### Model TAD-2 Tone Demodulator

The Model TAD-2 Tone Demodulator is designed for use in multi-channel Radio Teletype systems where the intelligence has been transmitted on a tone basis either by a microwave radio system or land line.

This demodulator will accommodate conventional (60-75-100 wpm) teletype transmissions or high speed intelligence such as the multiplex output of the AN/FGC-5 equipment. Manual bias adjustment is provided.

The TAD-2 will accept any single keyed tone frequency between 400 and 10,000 cps. These tones are amplified and rectified. The rectified pulses actuate the demodulator output circuits in accordance with the input intelligence pulses. Polar or neutral DC output is provided to operate a teletype equipment.

#### Technical Specifications:

- Keying Speeds: 0 to 125 dot cycles per second.
- Input Tone Frequencies: Any single keyed tone frequency between 400 and 10,000 cycles.
- Input Level: Minus 20 dbm to plus 8 dbm.
- Input Impedance: 600 ohms.
- Output:
- a. Neutral DC pulses of 60 ma. into 1800 ohms external load, one side grounded.
  - b. Polar DC pulses of plus/minus 30 ma. into external 1800 ohm load, center grounded.

Will operate into any impedance from 100 to 200 ohms.

#### Controls:

- a. Front Panel
  - (1) Primary power switch
  - (2) Sense switch
  - (3) Output current control
- b. Rear Panel (screwdriver adjustment)
  - (1) Input gain control
  - (2) Keying speed selector switch
  - (3) Current reverse switch
  - (4) Polar/neutral switch
  - (5) Bias control