



The Technical Materiel Corporation
Mamaroneck New York

SALES SERVICE BULLETIN NUMBER 132

Model TBK Tone Keyer

The Tone Keyer, Model TBK is a small single frequency tone keyer mounted on a 3 1/2 inch by 19 inch panel containing the oscillator, keying circuit, amplifier and band pass filter circuits with associated power supply.

The Tone Keyer, Model TBK is used for remote keying of one function over a telephone line or radio telephone link and provides one standard tone frequency.

A high stability audio frequency oscillator generates the standard tone frequency voltage. A balanced output stage is keyed by means of a keyer tube. The output of the Tone Keyer is fed through a band-pass filter network centered on the tone frequency for maximum attenuation of all undersired keying transients and side-bands. The fundamental tone frequency is controllable by means of a protected screwdriver adjustment. The output level is controllable from the front panel and is indicated on the output level meter. A jack is provided on the front panel for external keying. A test key permits testing of the circuit without keying intelligence. The power supply is self-contained and is voltage regulated.

Technical Specifications:

- Input Signal:
1. Contact closing to ground.
 2. Amplitude tone.
 3. Positive D. C. pulse.
 4. Negative D. C. pulse.
 5. Polar D. C.
- Output Frequency:
- Any one of the following frequencies:
425, 595, 765, 935, 1105, 1275, 1445,
1615, 1785, 1955, 2125, 2295, 2465, 2635,
2805, 2975 cycles per second.
- Output Impedance:
- 600 ohms balanced with center tap for external phantom circuit.
- Keying Speed:
- 100 words per minute maximum Morse and
100 words per minute maximum Teletype.

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- Controls:
- 1) Primary Power Switch
 - 2) Output Level Control
 - 3) Frequency Adjustment Control
 - 4) Test Key
 - 5) Monitoring Jack
 - 6) Keying Jack
- Metering: VU meter for indicating level in output circuit.
- Power Requirements: 110/220 volts 50/60 cycles, A.C. approximately 40 watts, with connection at rear of chassis.
- Dimensions: 3½" high x 19" wide x 14" deep.
- Weight: 25 pounds.
- Tube Complement:
- | | |
|--------------|-------------------|
| 1 each 6AQ5 | Oscillator |
| 1 each 12AU7 | Keyed Amplifier |
| 1 each 5Y3GT | Rectifier |
| 1 each 6X4 | Bias Rectifier |
| 1 each 12AU7 | Keyer |
| 1 each 6AL5 | Tone Rectifier |
| 2 each OA2 | Voltage Regulator |
- Components & Construction: Equipment is manufactured in accordance with JAN specifications wherever practicable.
- Note: Frequency determining elements of the TBK are self-contained plug-in units and can be supplied for any standard tone frequency.

We reserve the right to make engineering changes in these specifications when required.