



Model C-2000 SF Single Frequency Radio Control Console

- **FEMA (Federal Emergency Management Agency)**

The C-2000 SF (single Frequency) is a durable attractive designed console. It is used by FEMA emergency operators to make and receive calls through their ring down communications network, it operates in two modes (SF and EMSTEL) with industry standard four-wire SF to E&M facility equipment such as the Westell, Rockwell or equivalent network terminating equipment.

The modular and software design allows for ease of installation and use. Simply plug the telephone RJ-45 jack into the back of the unit and connect the power supply, program the desired operational mode and you are ready to accept emergency calls.

The SF mode has priority over the EMSTEL mode if both are enabled. The C-2000 SF normal on hook operation generates an idle 2600 Hz signaling tone. After detecting the loss of the 2600Hz tone the unit will produce a ringing signal from the speaker and display "IC" for Incoming Call on the display. When making an outgoing call and removing the handset from the cradle "OC" will be displayed for Outgoing Call. The EMSTEL (emergency medical service telephone) operates in a multi-party four-wire network. In this mode the unit will generate and detect a specific (up to 10 digit) DTMF address and ring for a programmable duration.

The keypad can be used to manually dial or pressing A, B, C or D on the keypad, can generate 4 pre-programmed DTMF addresses. If a call is being received the C-2000 SF will ring and "IC" will be displayed for Incoming Call. When making an outgoing call and removing the handset from the cradle "OC" will be displayed for Outgoing Call.

The C-2000 SF is always muted, therefore, to monitor the line before you make a call, lift the handset off hook or press the monitor switch on the front of the console. Receive audio can be heard in both the handset and speaker by press the monitor switch when the handset is off hook.



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Front panel controls

- MONITOR
- PTT button
- 16 digit DTMF keypad
- Volume controls (Ringing, Handset and Speaker)

Microphone Input

- Handset/Headset,

Features

- 4 wire full duplex
- Simplex/full duplex (field Programmable)
- Programmable squelch control
- TX Monitor
- Crossmute (hardwire)
- TX notch filter

Special features

- ◆ External PTT
- ◆ External audio input
- ◆ External DC input
- ◆ Data port for cloning to other C-2000 consoles
- ◆ External speaker output
- ◆ Eight different rings

Specifications

Line input and output impedance:

Four-Wire TX Line: 600, or 1 Meg ohm, jumper selectable, transformer isolated

Four-Wire RX Line: 600 or 10K ohm jumper selectable, transformer isolated

External Ringer: Dry contact Closure rated at 1A at 125Vac, 3A at 40Vdc

Line Input Level: -40 dBm to +10 dBm, adjustable

Line Output Level: -20 dBm to +10 dBm into a 600-ohm line, adjustable (high-level guard tone only)

Distortion: 3% maximum at full output

Hum and Noise: 50 db below operating levels

Speaker (one): 3 in, 8 ohm, heavy-duty

Amplifier Power: 2 W maximum at 3% THD into an 8 ohm load or equivalent

Optional Handset Earpiece Level: Adjustable preset level independent of speaker volume controls

Audio Frequency Response: ± 1.5 db, 300 to 3000 Hz, except at the transmit tone notch frequency

Operating Temperature Range: 0 to +70 degree C

Power Requirements: 117 Vac, 60Hz, 25W, or 12.0 Vdc at 1 A maximum

Microphone Connection: Handset and Headset are 4-wire,

Warranty (Limited)

All Telex Communications-manufactured signaling products are guaranteed against malfunction due to defects in materials and workmanship for three years, beginning at the date of original purchase. If such a malfunction occurs, the product will be repaired or replaced (at our option) without charge during the three-year period, if delivered to the Telex factory. Warranty does not extend to damage due to improper repairs, finish or appearance items, or malfunction due to abuse or operation under other than the specified conditions, nor does it extend to incidental or consequential damages. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation may not apply to you. This warranty gives the customer specific legal rights, and there may be other rights which vary from state to state.

Specifications are subject to change without notice.

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