

Multi-line radio control consoles

Model C-1610 desktop console



Model C-1610 rack mount console



- Police and Fire Departments
- Utility and Energy Companies
- Railroads and Airlines Industries
- US Forestry and BLM Agencies

The C-1610 is a full-featured, full function, radio-tone control console and is encased in an attractive, durable housing. The C-1610 is a DSP designed unit allowing easy field programmability using the DTMF keypad on the front of the console. Its modular design offers selection and control of up to six base stations, along with selection of 10 frequencies. Frequency selection can be programmed in paired modes or wild card groupings. The basic C-1610 unit comes with two channels, additional channels may be added by simply installing another two-line module.

Its unique vacuum fluorescent display provides channel alpha/

numeric indication, and features clock and audio-level meter.

Multiple consoles can be easily programmed by using the serial port located on the back of each console. Unlike other manufacturers' equipment, no additional software is required to program the C-1610 console.

Special features such as time duration of the PTT, audio delay, selecting single or dual function tones along with programming the function tone frequencies in any position, may be programmed via the keypad.

Initial automatic level adjustments and self-tuning receive circuit allow for ease of installation. Further level adjustments can be

made without opening the case by keypad programming.

Each line offers crossmute capability and a programmable squelch control feature eliminating the unwanted noise that is generally associated when monitoring a selected or unselected line.

The C-1610 with its standard features such as select and unselect audio, up to ten function tones, simultaneous TX and RX, Supervisory control, Mute, alert tones, Aux output, Monitor, Intercom, 16 digit DTMF keypad and Transmit LED's, used with our 223 series adapter panels, virtually offers all your needs and requirements for controlling your remote base stations.



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Front panel controls

- Select and Unselect status for each line
- Ten Function tone button selection
- TX ALL button
- RX ALL button
- Mute button
- Alert button
- AUX Relay Button
- MONITOR
- INTERCOM
- PTT button
- 16 digit DTMF keypad
- Supervisory button
- TX DETECT LED for selected audio
- Line Activity Monitor LED for each line

Microphones

- Two simultaneous Microphones:
- Handset/Headset and Deskmic/gooseneck

Features

- 2 or 4 wire per line (Field Programmable)
- Simplex/full duplex per line (Field Programmable)
- Programmable squelch control per line
- TX Monitor
- Supervisory control
- Two Alert tone cadence (Keypad Programmable)
- Crossmute per line (hardwire)
- TX notch filter
- Wildcard group groupings (function tones)

<u>PTT</u>	<u>Wildcard Group</u>
1-0	none
1-0	9/10
1-0	7/8 9/10
1-4	5-10

Special features

- ◆ Automatic initial level settings
- ◆ Self Tuning receive circuit
- ◆ Internal tuning via keypad
- ◆ Clock and VU meter
- ◆ Summed audio recorder output
- ◆ DTMF Selective Call Per line
- ◆ Instant PTT on each function tone

Specifications

Sequential tone line input and output impedance:

Two-Wire: 600, 1200, 1800 or 2400-ohm, jumper selectable, transformer isolated

Four-Wire TX Line: 600 ohm, 1200, 1800 or 2400-ohm, jumper selectable, transformer isolated

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

E & M keying

Each Line Input Level: -30 dBm to +15 dBm, adjustable

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

Audio Compression (selected and unselected receive and transmit): Less than 3-db change in output level for a 30-db change in input above threshold

Distortion: 3% maximum at full compression

Hum and Noise: 50 db below operating levels

Speaker: 4 in, 8 ohm, heavy-duty

Amplifier Power: 5 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/-3 db, 300 to 3000 Hz, except at the transmit tone notch frequency

Tone Frequencies: PTT/guard-2175 Hz, Monitor 2050 Hz, F1-1950 Hz, F2-1850 Hz, F3-1750 Hz, F4-1650 Hz, F5-1550 Hz, F6-1450 Hz, F7-1350 Hz, F8-1250 Hz, F9-1150 Hz, F10-1050 Hz, Accuracy ± 1 Hz

Select All (simulcast): Selection of all sequential tone lines

Time mute: temporarily mutes "Unselected" audio

Group select: for easy selection of TX/RX line combinations

Operating Temperature Range: 0 to +50 degree C

Power Requirements: .117 Vac, 60Hz, 25W, or 12.0 Vdc at 2 A maximum

Microphone Connection: Handset and Headset 4-wire; Desk and Gooseneck use 6-wire

Dimensions: 10 in (25.4cm) W x 9 in (22.9cm) D x 5.75 in (14.6cm) H in back x 1.75 in (4.45cm) H in front

Rack Mount unit: 10.5 in (26.6cm) H x 8.5 in (21.5cm) D x 19 in (48.2cm) W

Warranty (Limited)

All Telex-manufactured Vega 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.