

# R. L. DRAKE

## Model C-4

### STATION CONSOLE



The Drake C-4 STATION CONSOLE is designed to make the Amateur Radio Station more efficient and easier to operate. It integrates many features into one package, making it a unique piece of equipment.

#### FEATURES

- **Digital Clock** provides correct time at a glance. 24 hour type with one-second resolution.
- **Power Master:** A heavy duty power contactor, controlled from the Console's front panel, provides complete station power control. The Power Master is separate from the main Console, and can be located up to six feet away (control cable length). It contains eight 120 VAC outlets, six of which are switched on and off by the contactor, and two 240 VAC outlets also switched on and off by the contactor. A hidden "safety-switch" disables the Station Power ON control when leaving the station.
- **Remote Antenna Switch** allows front panel selection of up to five antennas, requiring only one transmission line. Unused antennas are grounded, and one selectable position provides grounding of all antennas when leaving the station. A front-panel indicator shows when the motor-driven switches are turning to prevent transmitter damage due to improper termination. The Remote Antenna Switch also features reliable motor-driven operation, a universal mounting bracket, "rain-hat" construction, and a low-temperature lubricant allowing operation in adverse weather conditions.
- **Phone Patch:** The Phone Patch in the C-4 is designed around the new regulations regarding phone line attachments. PTT operation for trouble free patches, a compression amplifier providing constant transmitter drive regardless of phone line level, and a level meter make it the ultimate in convenience.
- **Complete Recording Capability** is featured in both the Patch and normal Mike modes. Audio is available at the Rec jack during a normal QSO as well as during a Patch. In the Mike mode, the station mike is connected to the Rec jack by a buffer amplifier.
- **Xmit Tape:** In the Xmit TAPE position, the transmitter is driven by a tape recorder connected to the PB jack. The compression amplifier is used in this mode also, making critical level adjustment unnecessary.
- **Timer:** A solid state Timer, operating completely independent of the Digital Clock, signals identification intervals as required by FCC regulations. The indicator is a flashing amber light which is extinguished when the timer is reset.
- **Wattmeter:** A through line Wattmeter provides accurate forward and reflected power measurements. VSWR can be calculated using the nomogram furnished.
- **Equipment Control:** The Equipment Control is a unique function whose use is completely programmable by the operator. It can be used for changing excitors, receivers, etc. A 12 VDC @ .250 amp. output is available to further multiply its uses with external relays.
- **Rotor Control:** A built in Rotor Control compatible with the popular Ham-M Rotor provides line voltage independent indications with an easy-to read direction scale.

## C-4 SPECIFICATIONS

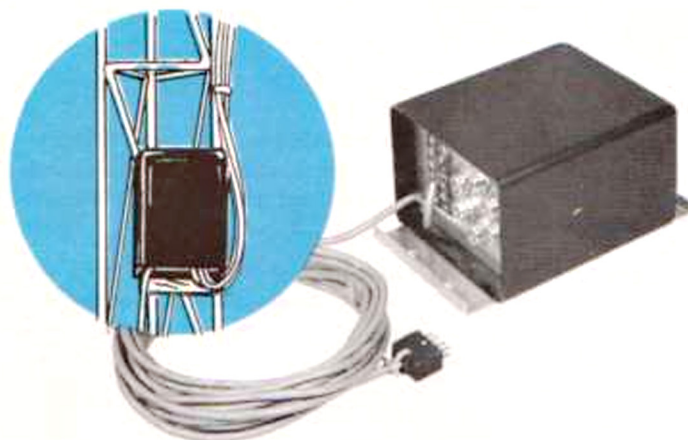
### DIGITAL CLOCK

- 24 hour type
- Motor: 120 VAC 60 Hz, 5W (50 Hz model available on special order.)



### POWER MASTER

- Outlets: Four 120 VAC, 15A duplex outlets, three of which are controlled by a heavy duty contactor. One 240 VAC, 20A duplex outlet also controlled by the contactor.
- Contactor Rating: Switchable load current — 25 amp., inductive load; 30 amp., resistive load.
- Maximum carrying current — 150 amp.
- All ratings are per pole. Contactor controls one side of the 120 VAC line and both sides (not neutral) of the 240 VAC line.



### REMOTE ANTENNA SWITCH

- Selects remotely up to five antennas, grounds all unused antennas. GND position grounds all antennas when leaving station. "Rain-Hat" construction shields motor and switches.
- Motor: 24 VAC, 2 amp. Lubricant good to -40°F.
- Switch RF Capability: Maximum legal limit.

### PHONE PATCH

- Designed to operate with type 30 or 30A QKT voice coupler now available from most phone companies. It may also be connected direct to phone lines where regulations permit. Transmitter driven by Compression Amplifier on PATCH/XMIT for constant drive regardless of phone line level. PTT operation only. Complete recording capability.
- Phone line terminal impedance: 900 ohms resistive.
- Frequency Response: Sharp notch in response at 2600 Hz to meet new tariff requirements. Rolloff correct when used with Drake receivers.
- Record level available: 20-30 mv. nominal.
- Record jack output impedance: approx. 5 K ohms.

### TIMER

- Period: 9-10 minutes nominal, adjustable.

### WATTMETER

- Through line type.
- Frequency Coverage: 1.8-54 MHz.
- Line Impedance: 50 ohms resistive
- Accuracy:  $\pm$  (5% of reading + 2 watts) on 200 watt scale;
- Accuracy:  $\pm$  (5% of reading + 20 watts) on 2000 watt scale.
- VSWR Insertion: Insertion of wattmeter in line changes VSWR no more than 1.05:1.
- Power Capability: 2000 watts RF, continuous duty.

### EQUIPMENT CONTROL

- Phono socket capability: 200 watts RF continuous duty. The EQUIPMENT CONTROL switches will carry (not switch) 2 amp. DC. Four pole, 11 position with 3 positions (A, B, and C) available by phono sockets. Poles 1, 2, and 3 (COM 1, COM 2, and COM 3) shielded from each other.

### ROTOR CONTROL

- Compatible with Series III and IV HAM-M Rotors.
- Indication independent of normal line voltage changes.

### CONTROLS AND JACKS

- Front: Equipment Control switch, Meter Function switch, Timer Control switch, Transmitter Control switch, Phone Patch Function switch, Antenna Master switch, Rotor Control switch, Station Power ON Control, and Station Power OFF Control.
- Rear: Fuse post, Antenna Switch socket, Rotor socket, Power Master socket, Phone Line jack, PTT jack, Playback jack (PB), Recorder jack (REC), Speaker jack (SPKR), Receiver jack (RCVR), Transmitter jack (XMTR), MIC jack, Headphone jack, 12 VDC/.250 amp. jack, Timer calibrate, Rotor calibrate, Load and Transmitter connectors on Wattmeter coupler, and 16 phono jacks on Equipment Control box (4 poles and 3 positions for each pole).

**DIMENSIONS:** 5-1/2" high, 10-3/4" wide, cabinet depth 11-5/8", overall length 12-1/4", Weight 15 lbs.



Prices and Specifications subject to change without notice.

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