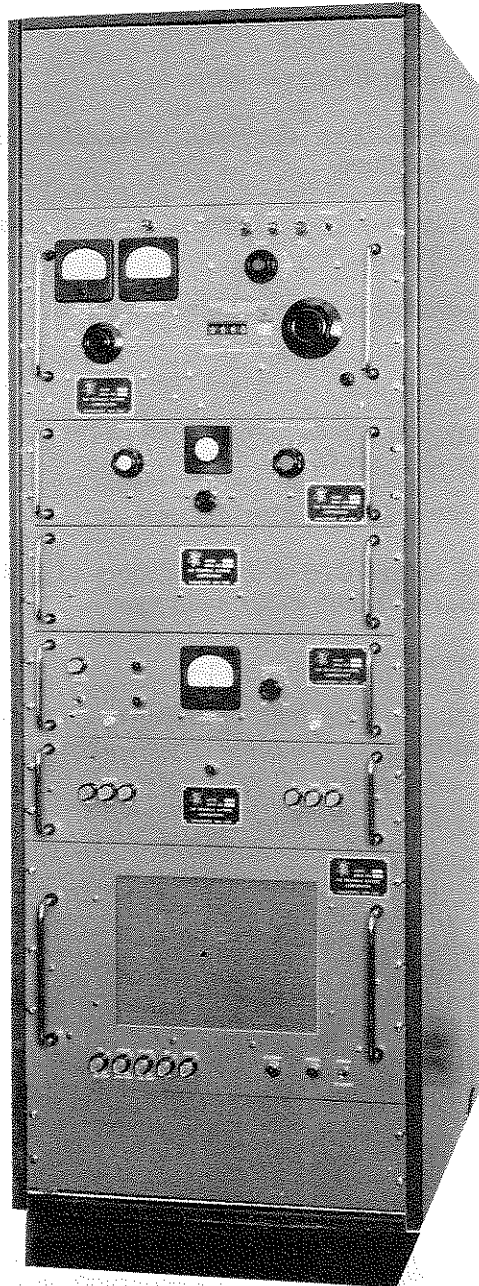
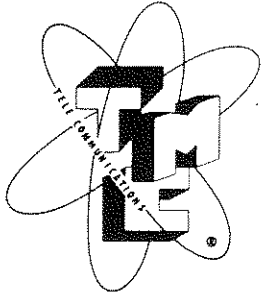


## SALES SERVICE BULLETIN NUMBER 244 A

Controlled Precision Oscillator, Model CPS-1



The TMC Model CPS-1, Controlled Precision Oscillator, is a synthesizer controlled master oscillator with a stability of 1 part in  $10^8$  per day and a "fail safe" feature of 20 parts per million. The unit covers the frequency range of 2 to 4 megacycles and is continuously tuneable throughout the range in 100 cycle increments.

All frequency determining elements in the CPS-1 are derived from a 1 megacycle source to provide the stability of 1 part in  $10^8$ . A phase detector circuit with direct meter indication allows this built-in standard to be compared to and corrected to a master or station standard. Also, the unit may be connected to an external standard of greater stability without degeneration of that standard.

The Model CPS-1 is housed in an attractive relay rack enclosure. The control portion of the unit occupies only 16-1/2 inches of rack space and all other components may be mounted separately if this makes for a more convenient installation package.

TECHNICAL SPECIFICATIONS:

FREQUENCY RANGE: 2 to 4 megacycles in 100 cycle steps

FREQUENCY CONTROL: All frequency determining elements referenced to a built-in 1 mc standard.

FREQUENCY STABILITY: 1 part in  $10^8$  per day under normal fixed station operating conditions.

OUTPUT POWER: Continuously adjustable from zero to 1 watt.

OUTPUT IMPEDANCE: 72 ohms nominal

SPURIOUS SIGNALS: All non-harmonic spurious frequencies above 60 cycles down at least 60 db.

INPUT POWER: 115/230 volts, 50 - 60 cps, single phase

SIZE: All units of the Model CPS-1 require only 43-3/4 inches of standard 19 inch relay rack space.

WEIGHT: Approx. 375 pounds.

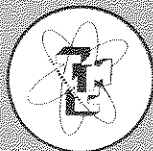
COMPONENTS AND CONSTRUCTION: All equipment is manufactured in accordance with JAN/MIL Specifications wherever practicable.

THE TECHNICAL MATERIEL CORPORATION

700 FENIMORE ROAD

MAMARONECK, NEW YORK

CABLE  
TEPEI  
MAMARONECK, N.Y.



COMMUNICATION ENGINEERS

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