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MODEL
5130

MASTER OSCILLATOR FOR MW TRANSMITTERS

500kHz/1700 kHz



MASTER OSCILLATOR FOR MW TRANSMITTERS

*500 kHz/
1700 kHz*

Specially designed for the driving of MW transmitters, the master oscillator Adret 5130 is a very compact synthesizer whose output frequency is directly dialled through four rotary switches with 100 Hz resolution, thus allowing small frequency offsets in order to avoid possible interference with neighbouring transmitters.

- 500 kHz to 1700 kHz in one range
- 100 Hz resolution
- Frequency stability $\pm 5.10^{-9}/24$ h
- External reference input

Because of the considerable number of programs broadcasted in the MW frequency range, the strict centering of transmitters on their allotted frequency is particularly crucial. The solution for the future lies in the synchronization of all transmitters through atomic standards, which is very easy to achieve with a frequency synthesizer but impossible with a crystal oscillator.

Moreover, the very competitive price of the 5130 makes it affordable to all transmitting stations while updating them to the latest international regulations.



With mainframe 421,
three 5130
can be placed
side by side
in a 19" rack



Digital frequency setting :
500 kHz to 1700 kHz,
100 Hz resolution

Phase locking
to external reference

SPECIFICATIONS

FREQUENCY

Range : 500 kHz to 1699.9 kHz

Resolution : 100 Hz

Selection : 4 rotary switches

Stability :

$\pm 2.10^{-8}$ per day after 72 hours' continuous operation.

$\pm 5.10^{-9}$ per day after 3 months' continuous operation.

PHASE-LOCKING

To external standard by built-in phase comparator.

Frequency : 5 MHz

Level : 200 mV to 1 Vrms/50 Ω

Phase-locking control through zero center meter, internal master oscillator adjustment by ten-turn potentiometer.

OUTPUT LEVEL

The output signal is delivered on a BNC connector on the rear-panel of the instrument.

Level : 1.5 Vrms/50 Ω

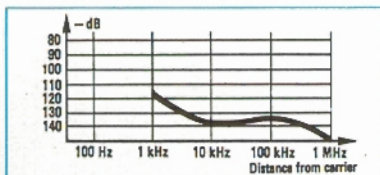
Output level flatness : ± 1 dB

SPECTRAL PURITY

Harmonic signals : - 26 dB

Non-harmonic signals : - 60 dB

Phase noise in a 1 Hz band :



POWER REQUIREMENTS

Voltage : 230 V $\pm 10\%$

Frequency : 50 to 400 Hz

Consumption : 15 VA

Dimensions

Height : 96 mm

Width : 124 mm

Depth : 280 mm

Weight : 4 kg

Temperature range

Operating : + 10°C to + 50°C

Storage : - 10°C to + 70°C

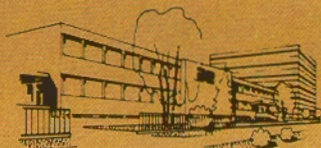
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5/82 - 1M  IMPRIMERIE B.M. 2800



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