

## Selective Level Generator



### Features

- ★ Digital Synthesized Oscillator
- ★ High Frequency and Level Stability
- ★ Frequency Tracking Facility with Level Meter SLM620
- ★ Operated from AC Mains or Internal Rechargeable Battery
- ★ Built in charger
- ★ Alphanumeric LCD Display with Backlight

### Application

Aplab LEVEL OSCILLATOR Model SLG620 and SELECTIVE LEVEL METER Model SLM620 forms a measuring set covering frequencies from 200Hz to 620KHz for measuring carrier frequency systems up to 120 channel capacity. Its compact constructions and the versatile power supply, made the unit suitable for use in places where no mains voltage is available (e.g. testing of remote-supplied underground repeater stations, PLCC installation).

Owing to the high output balance, the Carrier-Frequency Oscillator can be used for the supply of measuring bridges or for other measurements within the frequency range. In tests involving the Level Oscillator located close to the Selective Level Meter, the measurement is facilitated by the synchronous-tuning (tracking) mode.

### Specifications

#### OUTPUTS

<b>Balanced</b>	: 200Hz to 620 KHz.
<b>Unbalanced</b>	: 200Hz to 620 KHz.
<b>Impedances</b>	: 0, 75, 125, 150, 600 Ohm.
<b>Balance of Output</b>	: $\geq 40$ dB.

#### FREQUENCY

<b>Frequency Range (continuously without changeover)</b>	: 200Hz to 620 KHz.
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#### Automatic Tuning (synchronisation)

: Automatic tracking between level meter and generator is provided.

#### Frequency Display

: 16x2 Alphanumeric LCD with backlit.

#### Resolution

: 1 Hz to 100KHz cursor settable.

#### Frequency Accuracy

:  $2 \times 10^{-5} \pm 1$  digit at 27°C.

#### Frequency Stability

: 100 ppm / °C.

### FREQUENCY RESPONSE

Referred to 20 kHz and 0 dB meter reading.

1.0 to 600 KHz :  $\pm 0.1$  dB.

200Hz to 600KHz :  $\pm 0.15$  dB.

600KHz to 620KHz :  $\pm 0.2$  dB.

2 to 160KHz (+20dBm at 600 ohms bal.) :  $\pm 0.2$  dB.

### OUTPUT LEVEL

Adjustable in 10 dB Steps : -60 to +10 dB (dBm).

By Means of the Fine Control with Reference to the Built-in Meter : -12 to +1 dB.

600 ohms balance (2KHz to 160KHz) : -60 to +20 dB.

Smallest Settable Level : -72dB (dBm)

### ACCURACY OF LEVEL INDICATOR

At 0 dB/dBm, 0 scale mark, 20KHz :  $\pm 0.15$  dB.

### ATTENUATOR ERROR

At 20 kHz related to the 0 dB range :  $\leq \pm 0.1$  dB.

Additionally in the +10 dB range :  $\leq \pm 0.1$  dB.

Additionally in the +20dB range (600 ohms bal.) :  $\leq \pm 0.2$  dB.

### HARMONIC DISTORTION

2nd and 3rd product below fundamental.

0.2 to 620 KHz :  $\geq 40$  dB at +10dBm.

### SPURIOUS SIGNALS

At 0 dB (dBm) :  $\geq 60$  dB below fundamental.

### GENERAL SPECIFICATIONS

Power Supply (Mains) : 230V AC  $\pm 10\%$ , 50Hz  $\pm 5\%$ , 10VA.

Battery Operation : Internal rechargeable battery provided.

Battery Charging : Built-in charger.

Battery Consumption : 6V / 0.8A.

Battery Type : 6V, 4AH SMF Battery

Battery Backup : 3 Hrs.

Dimension : 330 (W) x 165 (H) x 435 (D) approx.

Weight : 10 Kg. approx.

### STANDARD ACCESSORIES

a) 3-core Power Cord : 1 No.

b) 2-core External Battery Connector with Jack : 1 No.

c) 3 Pin to 3 Pin Cable : 1 No.

d) BNC to BNC Cable : 1 No.

e) Operation Manual : 1 No.

f) Carrying Case : 1 No.

WE PURSUE A POLICY OF CONTINUOUS DEVELOPMENT AND PRODUCT IMPROVEMENT. THUS THE SPECIFICATIONS IN THIS DOCUMENT AND THE LOCATION OF CONTROLS ON THE FRONT PANEL MAY BE CHANGED WITHOUT NOTICE.

## **Aplab** Test & Measurement Instruments

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