



- **Oscillation frequency display of 3-1/2 digits using large LEDs**
- **Wide oscillation range from 0.1 Hz to 1 MHz**
- **Simultaneous 50  $\Omega$  and 600  $\Omega$  outputs**
- **Pulse generation with variable duty ratio**
- **Fast 50 ns square wave rise/fall time**
- **Max. 20 Vp-p high output voltage (with terminals open)**
- **TTL-level synchronized output**
- **Compact, lightweight and portable**

## 0.1 Hz to 1 MHz

The compact and lightweight SG-4101 Function Generator can be used to generate sine, triangular and square waves with frequencies from 0.1 Hz to 1 MHz. The oscillation frequencies can be easily read out from the large, bright LED display. The SG-4101 can also be used as a pulse generator as the square wave can either be symmetrical with a 50:50 duty ratio or asymmetrical with a variable duty ratio.

### Specifications

|                              |   |                                      |   |
|------------------------------|---|--------------------------------------|---|
| <b>Oscillation frequency</b> |   | <b>Triangular wave nonlinearity:</b> | Less than 0.5% (10 Hz to 10 kHz range)  |
| <b>Frequency range:</b>      | 0.1 Hz to 1 MHz, 7 ranges   | <b>Square wave characteristics:</b>  | Rise/fall time less than 50 ns  |
| <b>Frequency display:</b>    | 3-1/2 digit LEDs  | <b>Synchronized output</b>           |   |
| <b>Accuracy:</b>             | $\pm 2\%$ or less of set value (+15 to +35°C)   | <b>Waveform:</b>                     | Square wave   |
| <b>Output</b>                |   | <b>Output voltage:</b>               | +2 V or more (with output terminal open), +1 V or more (50 $\Omega$ load) 50 $\Omega$ (BNC) |
| <b>Waveform:</b>             | Sine wave, triangular wave, square wave, square wave with variable duty (15:85 or more)                                 | <b>Output R:</b>                     |   |
| <b>Voltage:</b>              | 20 Vp-p or more (with output terminal open), 10 Vp-p or more (50 $\Omega$ and 600 $\Omega$ load)                        | <b>Stability</b>                     |   |
| <b>Attenuator:</b>           | 3 ranges; 0 dB, 20 dB, 40 dB (50 $\Omega$ output only) with accuracy $\pm 5\%$ continuously variable for 20 dB and more | <b>Frequency, output voltage:</b>    | $\pm 0.1\%$ (over 10 min.), $\pm 0.5\%$ (over 24 hrs.)                                      |
| <b>Output R:</b>             | 50 $\Omega$ (BNC), 600 $\Omega$ (C type connector)  | <b>Operating temperature:</b>        | 0 to 50°C   |
| <b>DC offset:</b>            | Possible to $\pm 10$ V or more (with output terminal open), $\pm 5$ V or more (50 $\Omega$ or 600 $\Omega$ load)        | <b>Storage temperature:</b>          | -20 to 70°C   |
| <b>Sine wave distortion:</b> | Less than 1% (10 Hz to 10 kHz range) (+15 to +35°C)   | <b>Power supply</b>                  |   |
|                              |   | <b>Voltage:</b>                      | AC 100/120/220/240 V $\pm 10\%$ , 50 to 400 Hz  |
|                              |   | <b>Power consumption:</b>            | Less than 20 W  |
|                              |   | <b>Weight (approx.):</b>             | 2.6 kg  |
|                              |   | <b>Dimensions (approx.):</b>         | 210(W) X 100(H) X 310(L) mm   |
|                              |   | <b>Provided accessories:</b>         | Power cord (X1), fuse (X2), accessory bag (X1), operation manual (X1)                       |