

## SC-340

### 0.12 mV~60 V, 0.2 mV~100 V, 0.1 ms-2 s, 0.5 Hz~1 MHz

The SC-340 is a signal generator for checking and calibrating the deflection factor, sweep rate, pulse response, and triggering of oscilloscopes with bandwidths up to 100 MHz.

The SC-340 allows users to adjust their oscilloscope for more efficient usage. Not only that, but the SC-340 also allows major adjustments to be performed, making measurements more reliable.

It serves also as a general purpose signal generator.

Adjustment items are as follows:

- 1. Deflection factor and attenuator compensation (maximum output voltage: 100 V, square-wave: 1kHz)
- 2. Sweep rate (high accuracy by using a highly
- stable crystal oscillator)
- 3. Pulse response (square wave with low distortion)
- 4. Leading edge of square wave (rise time: 300 ps or less)
- 5. Trigger checking

### **Specifications**

#### Voltage calibrator (calibrates deflection factor)

Output voltage :	0.12 mV – 60 V, 18 steps (1.2-3-6)
	0.2 mV - 100 V, 18 steps (1-2-5)
	accuracy; within ±0.5% (into 1 M load)
Output waveform :	Square wave
Polarity :	Positive going from 0 V base line
Rise time :	5 µs or less
Waveform distortion :	±0.5% or less
Output R :	50 (0.12 mV 0.2 V range)
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#### Time calibrator (calibrates sweep rate)

0.1 µs – 2s, 23 steps (1-2-5)
accuracy; within ±0.05%
0.1 V or more (into 50 )
Pulse
Positive going
10 ns, 20 ns
accuracy; within ±0.05%
0.2 V or more (into 50 )
Sine wave (10 ns), square wave (20 ns)



# Sine-wave generator (checks triggering)

Frequency : Line frequency; 50/60 Hz or 1 kHz ±20%

Waveform calibrator (calibrates pulse response) Output waveform : Square wave Rise time : 5 ns or less Output frequency :

0.5 Hz 1 MHz, 20 steps (1-2-5) Approx. 50 mV (50 load) min.

High-speed rise calibrator (calibrates rise of square wave) Output waveform : Repetitive frequency : Rise time Waveform distortion :

Temperature range for

guaranteed accuracy : Operating temperature

range :

Weight :

Power supply :

Dimensions :

Output voltage :

Oscillation of tunnel diode 10 kHz 200 kHz 300 ps or less 3% or less (measured with 100 MHz oscilloscope)

+10°C +35°C

0°C +50°C AC 100/117/217/234 V ±10%, 50/60 Hz, approx. 15 W Approx. 3.5 kg Approx. 210(Ŵ) X 100(H) X 350(L)mm