

## AUTOMATIC DISTORTION METER

MODEL : MAK-6571C

### 〈 DESCRIPTION 〉

The MAK-6571C is designed to speed up measurement of distortion in radio sets, stereo amplifiers, tape recorders, and other audio equipment. Measurements of the total harmonic distortion, THD, at 400Hz or 1000Hz (automatic changeover) can be easily made.

An advantage of this instrument is the ability to measure distortion even when there is a small variation in the input signal level.

Again, an efficient high-pass filter system is used making it possible to accurately measure distortion in presence of wow flutter in the reproduced signal from a tape recorder or a phono-player.

This instrument can be used as a level meter, when required, for signal inputs, in the 10mV to 100Vrms, range in the 20Hz to 100kHz band.

### 〈 FEATURES 〉

1. Measurement of low distortion levels is possible.
2. Simultaneous measurements of distortion and level.
3. No need for initial input level calibration-a timer saver.
4. Distortion and input signal levels can be measured at the same time-two meters are used.
5. Switchover of input frequency, 400Hz or 1000Hz, is automatic.
6. Distortion can be accurately measured even with variation in the input signal level, or in presence of wow flutter in tape recorders, etc.
7. Total harmonic distortion is indicated without regard to "AC hum".



MODEL : M A K - 6 5 7 1 C

< SPECIFICATIONS >

**DISTORTION MEASUREMENTS**

Fundamental Frequencies (Automatic selection)	1. 400Hz $\pm 10\%$ for THD. 2. 1000Hz $\pm 10\%$ for THD.
Measuring Range	0.1% to 30% in six ranges (0.1%, 0.3%, 1%, 3%, 10% and 30% full scale)
Accuracy	$\pm 5\%$ of full scale at each range. ( $\pm 10\%$ at 0.1% range).
Fundamental Rejection Characteristics	Less than $-76\text{dB}$ at 400 and 1000Hz $\pm 5\%$ Less than $-70\text{dB}$ at 400 and 1000Hz $\pm 10\%$
Input Voltage	3mV to 100Vrms. (0.01, 0.03, 0.1, 0.3, 1, 3, 10, 30, 100Vrms full scale)
Input Impedance	Approx. 100k $\Omega$ ; unbalanced.
Automatic Input Control Range	10dB; level monitor included.
Output Terminals, TO SCOPE	Output: Approx. 1Vrms at each full scale. Output Impedance: Approx. 10k $\Omega$

**LEVEL MEASUREMENTS**

Frequency Range	$\pm 0.5\text{dB}$ : 20Hz to 50kHz (ref. 1kHz). $\pm 1\text{dB}$ : 20Hz to 100kHz (ref. 1kHz).
Input Impedance	Approx. 100k $\Omega$ ; unbalanced.
Measuring Range	1mV to 100Vrms in nine full scale ranges (0.01, 0.03, 0.1, 0.3, 1, 3, 10, 30, and 100Vrms full scale).
Accuracy	$\pm 3\%$ of full scale at each range. (at 1000Hz)
Output Terminals, TO SCOPE	Output: Approx. 1Vrms at each full scale. Output Impedance: Approx. 10k $\Omega$

**GENERAL DATA**

Power Requirements	AC 100V, 115V, 215V, or 230V $\pm 10\%$ , 50/60Hz; approx. 4VA.
Dimensions, Overall	Approx. 290 (W) $\times$ 160 (H) $\times$ 290 (D) mm
Weight	Approx. 5.9kg
Accessory, furnished	Output cable 1ea.