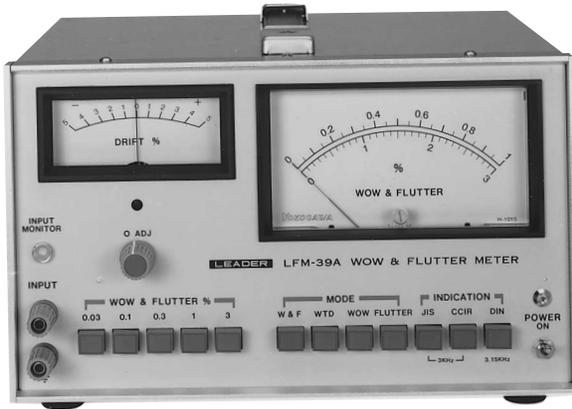


# Wow, Flutter & Drift Meter



LFM-39A

- 0.03% Full Scale High Sensitivity
- Conforms to JIS, CCIR and DIN
- Built-in Weighted Filter
- Oscillator Output

The LFM-39A is a wow and flutter/drift meter designed primarily for testing and repair of audio tape decks, turntables, VCRs and other record/playback equipment. Using reference test records or optional test tapes, this instrument enables quick verification of spec and isolation of the trouble area to the capstan, clutch, motor or belt, greatly reducing repair time.

Measurements to JIS rms, CCIR, and DIN quasi-peak or NAB mean standards are front-panel selectable with DIN and NAB available as options. The four measurement modes include combined W&F unweighted, W&F WTD i.e. weighted and separate wow or flutter unweighted. This shows the different amounts of errors attributable to wow or flutter. The analog drift meter indicates both long term tape speed drift and short term variations which are missed when using gated frequency counters.

The LFM-39A is a precision instrument offering 0.25% drift measurement accuracy and 5% full-scale wow and flutter measurement accuracy.

## KEY SPECIFICATIONS

### INPUT REQUIREMENTS

Frequency  
CCIR, JIS  
3 kHz  $\pm$  10%

DIN  
3.15 kHz  $\pm$  10% (option)

Level  
15 mV to 10 V rms

### DRIFT MEASUREMENTS

Range  
0 to  $\pm$  5%

Accuracy  
 $\pm$  5% full scale

### WOW AND FLUTTER MEASUREMENTS

Range  
0.003 to 3%, 5 ranges

Accuracy  
 $\pm$  5% f.s.

Frequency Characteristics

RANGE	STANDARD	FREQ. RANGE (-3 dB $\pm$ 1 dB)
W & F	CCIR	0.3 to 200 Hz
	JIS	0.5 to 200 Hz
	DIN	0.3 to 300 Hz
WOW	CCIR, DIN	0.3 to 6 Hz
	JIS	0.5 to 6 Hz
FLUTTER	CCIR, JIS	6 to 200 Hz
	DIN	6 to 300 Hz

### REFERENCE OSCILLATOR

Frequency  
CCIR, JIS  
3 kHz

DIN  
3.15 kHz (option)

Accuracy  
 $\pm$  0.05%

Output Level  
0.3 V rms nominal

### POWER REQUIREMENTS

100, 120, 220, 240 V AC  $\pm$  10%

50/60 Hz, 15 VA

### PHYSICAL

Size (W x H x D)  
9<sup>7</sup>/<sub>8</sub> x 5<sup>7</sup>/<sub>8</sub> x 9<sup>7</sup>/<sub>8</sub> in.  
220 x 150 x 250 mm

Weight  
10 lbs., 4.5 kg

### SUPPLIED ACCESSORY

LC-2021 Double Banana to Miniature  
Alligator Clips

### AVAILABLE OPTIONS

TC-39 Test Cassette  
LFM-39A-01 Adds 3.15 kHz Oscillator  
to LFM-39A (-258)  
NAB Weighting (-220)