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Data Sheet

August 1, 2026

IEC

IEC F34 Function Signal Generator

IEC (Interstate Electronics Corp.) F34 Function Signal Generator The IEC F34 is a laboratory function generator manufactured by Interstate Electronics Corporation (Anaheim). It produces sine, square, triangle, sawtooth, pulse, and DC waveforms over a frequency range commonly documented as 0.3 Hz to 3.0 MHz (some secondary listings cite a lower start near 0.0003 Hz). The instrument includes a sweep mode with sweep times from 10 μ s to 1 s and a maximum output amplitude of about 10 Vpp. It is a metal-case benchtop generator for general electronics lab and service use. The IEC F34 is a laboratory function generator manufactured by Interstate Electronics Corporation (Anaheim). It produces sine, square, triangle, sawtooth, pulse, and DC waveforms over a frequency range commonly documented as 0.3 Hz to 3.0 MHz (some secondary listings cite a lower start near 0.0003 Hz). The instrument includes a sweep mode with sweep times from 10 μ s to 1 s and a maximum output amplitude of about 10 Vpp. It is a metal-case benchtop generator for general electronics lab and service use. Circuit development and troubleshooting, amplifier and filter response checks, pulse and sweep stimulus for analog boards, educational labs, and general-purpose waveform generation where multi-megahertz sine/square/triangle coverage is sufficient.



MODEL

IEC F34

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

F34

LISTING

<https://aumictechlabs.com/products/f34-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The IEC F34 Function Signal Generator is a versatile signal source engineered for electronic testing, measurement, and R&D applications across educational and commercial laboratories. It generates fundamental waveforms - sine, square, triangle, pulse, and ramp - with adjustable DC offset, spanning frequencies from 0.03 Hz to 3 MHz and output amplitudes to 10 V peak-to-peak into 50 Ohms.

Technical Specifications

Waveform Generation Sine, square, triangle, pulse (variable width), ramp (up and down), and DC offset

Frequency range: 0.03 Hz to 3 MHz

Output amplitude: 10 V peak-to-peak into 50 Ohm impedance

DC offset: ± 10 V (peak voltage not to exceed 10 V total)

Frequency Control Calibrated coarse-fine tune controls with 1000:1 manual tuning range

Speed-sensitive frequency knob for rapid approximation and fine adjustment

Up/Down buttons for incremental frequency adjustment

Voltage Controlled Generator (VCG) input: 0–10 V external control with proportional frequency modulation

Amplitude Control Output adjustment knob

5-step attenuator with up to 60 dB attenuation

DC offset switch: selectable positive, negative, or zero offset

Sweep Capability Linear and logarithmic sweep modes

Direct-reading sweep limits

Sweep initiation and stop control

Additional Features Trigger and gate modes with external synchronization

Output limit indicator

50 Ohm coaxial output impedance

Analog frequency display with digital readout for voltage, current, and waveform data

Status indicators for offset, sweep, and standby modes

Power AC input: 115 V or 230 V selectable, 50–400 Hz

Dimensions 260 mm (W) $\times$ 70 mm (H) $\times$ 270 mm (D)

Key Features 1000:1 manual tuning range for precise frequency control

Variable-width pulse and ramp generation

Dual-mode sweep (linear/logarithmic) with programmable limits

External VCG control for automated or modulated operation

Multi-attenuator design for wide dynamic range

Selectable AC mains voltage for global deployment

Typical Applications Circuit development and validation, component characterization, frequency response testing, educational demonstrations, and signal integrity analysis in laboratory and R&D environments.

Compatibility & Integration External voltage control (0–10 V VCG input) enables integration with automated test systems, modulation sources, and feedback control loops.

Standard 50 Ohm output impedance supports direct connection to most laboratory instruments and RF test equipment.

Features & description

From manufacturer datasheet

Features

- Waveforms: sine, square, triangle, sawtooth, pulse, and DC
- Frequency range: 0.3 Hz to 3.0 MHz (documented on Radiomuseum and related period listings)
- Sweep mode with adjustable sweep time 10 μ s to 1 s
- Maximum output amplitude approximately 10 Vpp
- AC line powered, 115-240 V
- Metal enclosure, book-shelf / benchtop form factor

F34 Characteristics / Specifications

PARAMETER	VALUE
Model	F34
Manufacturer	Interstate Electronics Corp. (IEC)
Instrument Type	Function / signal generator
Waveforms	sine, square, triangle, sawtooth, pulse, and DC
Frequency Range	0.3 Hz to 3.0 MHz (documented on Radiomuseum and related period listings)
Sweep	Yes; sweep time 10 us to 1 s
Maximum Output Amplitude	approximately 10 Vpp
Power	AC 115-240 V
Case	Metal
Dimensions (WxHxD)	approximately 300 × 170 × 420 mm (11.8 × 6.7 × 16.5 in)
Net Weight	approximately 4.2 kg (about 9.3 lb)
Era	approximately 1980-class laboratory instrument Standard Operating Conditions Use onastable AC mains within the marked voltage selector range. Allow warm-up before precision amplitude or frequency checks. Exact distortion, flatness, and duty-cycle figures were not located inaprimary OEM datasheet for this session; values above follow widely cited period catalog summaries for the F34.

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications	
Specifications	
PARAMETER	VALUE
Model	F34
Manufacturer	Interstate Electronics Corp. (IEC)
Instrument Type	Function / signal generator
Waveforms	Sine, Square, Triangle, Sawtooth, Pulse, DC
Frequency Range	0.3 Hz to 3.0 MHz
Sweep	Yes; sweep time 10 us to 1 s
Maximum Output Amplitude	approximately 10 Vpp
Power	AC 115-240 V
Case	Metal
Dimensions (WxHxD)	approximately 300 x 170 x 420 mm (11.8 x 6.7 x 16.5 in)
Net Weight	approximately 4.2 kg (about 9.3 lb)
Era	approximately 1980-class laboratory instrument
Standard Operating Conditions	
Use on stable AC mains within the marked voltage selector range. Allow warm-up before precision amplitude or frequency checks. Exact distortion, flatness, and duty-cycle figures were not located in a primary OEM datasheet for this session; values above follow widely cited period catalog summaries for the F34.	
Operational Notes	
Confirm front-panel frequency decade and amplitude attenuator settings before connecting to sensitive loads. Observe proper grounding. If a unit is marked with a different low-end frequency (for example 0.0003 Hz), treat that marking as the governing range for that serial.	

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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<https://aumictechlabs.com>

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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.