

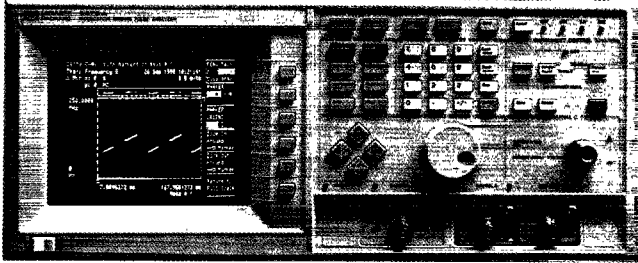
ELECTRONIC COUNTERS

Modulation Domain Analyzers

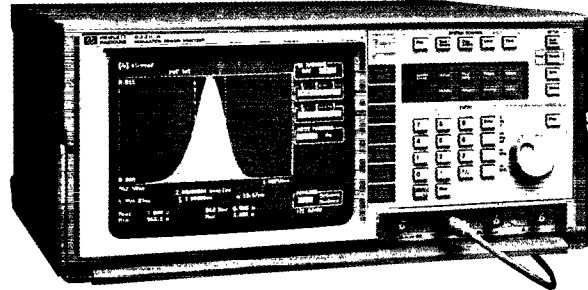
HP 5371A, 5372A, 5373A, 53310A

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- Characterize frequency, phase, and time-interval versus time
- Fast time-interval histogram analysis



- 150 ps rms single-shot resolution, 2 ps resolution with averaging
- Choice of products to fit project requirements and budgets



The Modulation Domain: Viewing Complex Signals

Hewlett-Packard frequency and time-interval analyzers offer a view of information that traditional measurement techniques miss. The modulation domain — mapping frequency, phase, or time-interval vs. time — can more effectively characterize:

- Data storage products
- Radar systems
- Communication systems
- Electromechanical systems
- Frequency stability
- VCOs
- Frequency agile systems

This new view of data is intuitive and offers a direct view of jitter or modulation. The HP modulation domain analyzers provide insight into changes of frequency or time intervals.

A Choice of Solutions

Choose from four HP modulation domain analyzers based on your project requirements.

Affordability and Ease of Use

The most affordable modulation domain analyzer, the HP 53310A, includes many innovations for ease of use. Characterization of modulation and jitter is easier with built-in analysis. Parameters such as peak-to-peak deviation, carrier frequency, and modulation rate are all quickly and automatically displayed. Jitter analysis is simplified with automated mean, standard deviation, and probability functions.

Measurement Versatility

In addition to offering expanded functionality, the HP 5371A and HP 5372A can analyze signals ranging up to 500 MHz, or (with an optional configuration of the HP 5372A) up to 2 GHz. Up to eighteen measurement functions and increased display modes offer the versatility to handle a broad range of situations. With a new hardware option, the HP 5372A can compute and display a spectral presentation of jitter data without the need for an external computer or special processor.

Based on the same technology, the HP 5372A is a superset of the HP 5371A. Choose the lower-priced HP 5371A or more powerful HP 5372A based upon your project constraints.

Pulsed Systems Design and Analysis

The HP 5373A Modulation Domain Pulse Analyzer minimizes the design and testing effort for radar systems, and enhances design efforts for EW, ELINT, IFF, and related equipment and components. The analyzer measures modulation and carrier frequency on pulsed RF signals to 500 MHz. A detector channel can precisely measure envelope parameters such as pulse width and PRT, peak envelope power, percent AM, jitter, and more. The HP 5373A is easy to use and attractively priced compared to specialized or home-grown test sets used for radar and related advanced systems design.

