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Data Sheet

August 15, 2026

DATAPULSE

DataPulse 101 pulse generator VINTAGE tested P/N 37000-424

Datapulse Systron Donner 101 Pulse Generator 37000-424 Queue model 37000-424 is the Datapulse / Systron Donner Model 101 pulse generator, part 37000-424. OEM Model 101 operation handbook and 37000-424 listings rate repetition 10 Hz to 10 MHz in six ranges, single or double pulse, main output up to +10 V with 5 ns rise, pulse delay 40 ns to 10 ms in six ranges, normal and complement outputs, gating non-gated / synchronously gated / asynchronously gated, external trigger AC-coupled single-cycle to 10 MHz for plus or minus 0.4 V pulses (30 ns min duration) or 50 Hz to 10 MHz from 2 Vrms sine waves. 1967-class Datapulse 101 handbook includes fold-out schematic and Service Bulletin 1-65. Queue model 37000-424 is the Datapulse / Systron Donner Model 101 pulse generator, part 37000-424. OEM Model 101 operation handbook and 37000-424 listings rate repetition 10 Hz to 10 MHz in six ranges, single or double pulse, main output up to +10 V with 5 ns rise, pulse delay 40 ns to 10 ms in six ranges, normal and complement outputs, gating non-gated / synchronously gated / asynchronously gated, external trigger AC-coupled single-cycle to 10 MHz for plus or minus 0.4 V pulses (30 ns min duration) or 50 Hz to 10 MHz from 2 Vrms sine waves. 1967-class Datapulse 101 handbook includes fold-out schematic and Service Bulletin 1-65. 10 Hz to 10 MHz laboratory pulse stimulus with delay, double-pulse, an



MODEL

DataPulse 37000-424

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

37000-424

LISTING

<https://aumictechlabs.com/products/37000-424-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The DataPulse 101 is a vintage benchtop pulse generator from the 1970s–80s era, engineered to produce precision TTL-compatible output signals across a 10 Hz to 10 MHz frequency range. This tested and functional instrument delivers adjustable pulse width, delay, and repetition rate through manual controls with vernier adjustment, supporting both single and double pulse modes. Output reaches +10 V amplitude with 5 ns rise time, accessible via BNC connector with selectable normal and complement outputs. External trigger capability operates from single-cycle to 10 MHz for ± 0.4 V pulses (30 ns minimum) or 50 Hz to 10 MHz from 2 V RMS sine waves, enabling synchronous or asynchronous gated operation. Manual pushbutton triggering is available for single-cycle pulse generation. The instrument accepts external gate signals between +1 V and +10 V to enable or disable main pulse outputs, making it suitable for precision timing, pulse characterization, and synchronization tasks in test and educational settings.

Technical Specifications
Repetition Rate: 10 Hz to 10 MHz in 6 ranges
Maximum Frequency: 10 MHz
Pulse Width: Adjustable via manual controls and vernier adjustment
Pulse Delay: Adjustable via manual controls and vernier adjustment; 40 ns to 10 ms in six steps
Output Amplitude: +10 V
Rise Time: 5 ns
Pulse Modes: Single (SGL) or Double (DBL)
Output Type: TTL-compatible; normal and complement outputs
Output Connector: BNC

Key Features
AC-coupled external trigger with multi-range sensitivity (± 0.4 V pulse threshold; 2 V RMS sine wave compatible)
Three gating modes: non-gated, synchronously gated, and asynchronously gated
External gate threshold: +1 V to +10 V
Manual trigger pushbutton for single-cycle pulse generation
Benchtop form factor; power cord included

Typical Applications
Digital circuit testing and characterization
Pulse timing and synchronization verification
TTL signal generation and validation
Educational laboratory instrumentation
Compatibility & Integration
External triggering and gating accommodate standard laboratory signal sources. BNC output interface enables direct integration with standard test equipment.

101 Characteristics / Specifications

PARAMETER	VALUE
Model	101
Part Number	37000-424
Instrument Type	laboratory pulse generator
Repetition Rate	10 Hz to 10 MHz in 6 ranges
Pulse Mode	single or double pulse
Main Amplitude	up to +10 V
Rise Time	5 ns
Pulse Delay	40 ns to 10 ms in six ranges
Outputs	normal and complement
Gating	non-gated, synchronously gated, or asynchronously gated
Ext Trigger Pulse	AC coupled, single cycle to 10 MHz, plus or minus 0.4 V pulses, 30 ns minimum duration
Ext Trigger Sine	50 Hz to 10 MHz from 2 Vrms sine waves
Manufacturer	Datapulse / Systron Donner
Literature	Datapulse Model 101 operation and maintenance handbook; 37000-424 listings
Family	Datapulse 101
Form Factor	benchtop pulse generator
System Role	10 Hz to 10 MHz pulse stimulus
Application Class	logic and analog pulse testing
Brand Lineage	Datapulse Systron Donner
Handbook Year	1967 class Model 101 handbook
Service Bulletin	Service Bulletin No. 1-65 in the handbook set
Queue Title	DataPulse 101 pulse generator VINTAGE tested P/N 37000-424
Documentation Type	OEM 101 handbook plus 37000-424 identity
Range Count	six repetition ranges and six delay ranges

PARAMETER	VALUE
Trigger Class	AC coupled external trigger
Output Class	normal plus complement
Vendor Path	Datapulse then Systron Donner
Year Class	1960s Datapulse 101 generation

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	
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Notes

From Datapulse Model 101 handbook/listings (10 Hz to 10 MHz, +10 V, 5 ns, 40 ns to 10 ms delay, gated modes). Width/period overlap limits and mains ratings are in handbook Specifications and are not invented here.

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