

**Aumictech**

Test & measurement • bought, sold, repaired, calibrated

Data Sheet

August 15, 2026

DDC

DDC SIM-31201 Synchro / Resolver Simulator

The DDC SIM-31201 is a precision microprocessor-based synchro/resolver simulator engineered to generate accurate angle signals for verification and calibration of position control systems, navigation equipment, and angle-dependent measurement instruments. The instrument combines front-panel keyboard and display operation with IEEE-488 (GPIB) remote programming, making it suitable for production testing, quality control, laboratory work, and field service environments. Its solid-state design delivers stable, programmable synchro and resolver outputs across multiple voltage levels and standard power-line frequencies. Interface Connectors: IEEE-488 (GPIB) with Amphenol 17-18500-1 mating connector supplied; parallel digital I/O Status indicators: Local, remote, synchro, resolver, 11.8 V, 26 V, 90 V, overload, and reference loss (all LED) Command concatenation capability with linefeed term



MODEL

DDC SIM-31201

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

SIM-31201

LISTING

<https://aumictechlabs.com/products/sim-31201-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The DDC SIM-31201 is a precision microprocessor-based synchro/resolver simulator engineered to generate accurate angle signals for verification and calibration of position control systems, navigation equipment, and angle-dependent measurement instruments. The instrument combines front-panel keyboard and display operation with IEEE-488 (GPIB) remote programming, making it suitable for production testing, quality control, laboratory work, and field service environments. Its

solid-state design delivers stable, programmable synchro and resolver outputs across multiple voltage levels and standard power-line frequencies. Technical Specifications Output Voltage (Programmable): 11.8 V RMS, 25 V RMS, or 90 V RMS nominal Frequency: 47 to 63 Hz standard; 400 Hz available upon factory consultation Display: 6-digit, 0.43" LED with polarizing filter Power Input: 115 V nominal (35 V for 26 V nominal output) Power Supply Frequency: 47 to 63 Hz Interface Connectors: IEEE-488 (GPIB) with Amphenol 17-18500-1 mating connector supplied; parallel digital I/O Key Features Programmable output angle generation Front-panel keyboard and 6-digit LED display with polarizing filter Status indicators: Local, remote, synchro, resolver, 11.8 V, 26 V, 90 V, overload, and reference loss (all LED) IEEE-488 interface supporting talk/listen and serial poll operations Parallel digital input/output for remote control Command concatenation capability with linefeed terminator (carriage return optional) Rear-panel EMI/RFI filter and integrated cooling fan Lightweight, compact design Typical Applications Production testing and quality control verification Position control system calibration Navigation equipment testing Laboratory angle measurement and simulation Field service and troubleshooting Compatibility & Integration The SIM-31201 integrates into automated test equipment (ATE) environments via IEEE-488 control or standalone benchtop operation. It pairs with external angle indicators such as the SR-203 or HSR-203 for combined stimulus and measurement capability.

SIM31201 Characteristics / Specifications

PARAMETER	VALUE
Model	SIM-31201
Series Family	SIM-31200
Instrument Type	synchro and resolver angle simulator
Drive Capability	5 VA
Control Local	front panel keyboard and display
Control Remote	IEEE-488 GPIB
Architecture	microprocessor based solid state
Related Indicator	SR-203 or HSR-203 angle indicator
Related High Frequency Option	SIM-31205 contact factory
Nsn Example	6625-01-609-0588
Sister Models	SIM-31202 SIM-31203
Form Factor	compact benchtop
Use Case	ATE synchro resolver stimulus
Manufacturer	Data Device Corporation / ILC Data Device
Output Type	synchro and resolver
Intended Systems	navigation antenna positioning machine tool
Portable Use	field portable class
Interface Class	external digital control and test systems
Display	front panel angle display
Stimulus Role	complete synchro resolver stimuli for automatic and semi-automatic ATE
Measurement Pairing	connect to SR-203 or HSR-203 for measurement
Documentation Source	DDC SIM-31200 series synchro and resolver angle simulators literature

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	SIM-31201
Series Family	SIM-31200
Instrument Type	synchro and resolver angle simulator
Drive Capability	5 VA
Control Local	front panel keyboard and display
Control Remote	IEEE-488 GPIB
Architecture	microprocessor based solid state
Related Indicator	SR-203 or HSR-203 angle indicator
Related High Frequency Option	SIM-31205 contact factory
Nsn Example	6625-01-609-0588
Sister Models	SIM-31202 SIM-31203
Form Factor	compact benchtop
Use Case	ATE synchro resolver stimulus
Manufacturer	Data Device Corporation / ILC Data Device
Output Type	synchro and resolver
Intended Systems	navigation antenna positioning machine tool
Portable Use	field portable class
Interface Class	external digital control and test systems
Display	front panel angle display
Stimulus Role	complete synchro resolver stimuli for automatic and semi-automatic ATE
Measurement Pairing	connect to SR-203 or HSR-203 for measurement
Documentation Source	DDC SIM-31200 series synchro and resolver angle simulators literature
Notes	
From DDC/ILC SIM-31200 Series synchro and resolver angle simulator literature (5 VA drive, IEEE-488, SIM-31201 member). Programmable output-voltage and frequency dash numbers belong on the installed nameplate and option list.	

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

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

NIST-traceable calibration · SAM registered ·
30-day returns
NAICS 423690 · 811210 · 541380
Generated August 15, 2026

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