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Data Sheet

August 2, 2026

RACAL

Racal Instruments 2201 Universal Counter / Timer

Astronics / EADS / Racal 2201 Universal Counter / Timer The Astronics / EADS / Racal (Racal Dana / Racal Instruments) 2201 is a high-performance two-channel universal counter/timer for R&D bench and ATE use. It measures Frequency, Period, Time Interval, Time Interval Delay, Pulse Width, Frequency Ratio A/B, Totalize, Phase, and Peak Signal Voltage, with an optional third channel for RF to about 1.3 GHz. Frequency measurement extends to 225 MHz on the standard channels with nine-digit resolution class and averaged time-interval resolution to about 10 ps. Trigger resolution is 10 mV class with comprehensive arming and trigger control. Options include GPIB, OCXO or rubidium references, and the high-frequency Channel C. Ten non-volatile complete instrument setups can be stored and recalled. The Astronics / EADS / Racal (Racal Dana / Racal Instruments) 2201 is a high-performance two-channel universal counter/timer for R&D bench and ATE use. It measures Frequency, Period, Time Interval, Time Interval Delay, Pulse Width, Frequency Ratio A/B, Totalize, Phase, and Peak Signal Voltage, with an optional third channel for RF to about 1.3 GHz. Frequency measurement extends to 225 MHz on the standard channels with nine-digit resolution class and averaged time-interval resolution to about 10 ps. Trigger resolution is 10 mV class with comprehensive arming and trigger control. Options include GPIB

No photo

MODEL

Racal 2201

CALIBRATION

**N/A — off-catalog
OEM datasheet**

CONDITION

**See OEM
documentation**

STATUS

**Not listed on
Aumictech
inventory**

RFQ / SKU

2201

LISTING

**Off-catalog — OEM dat
asheet only**

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

Features & description

From manufacturer datasheet

Features

- Two-channel universal counter/timer (optional ChannelCto ~1.3 GHz) • Frequency to 225 MHz (standard channels) • Nine-digit frequency resolution class • Averaged time-interval resolution to about 10 ps • Functions: Frequency, Period, TI, TI Delay, Pulse Width, Ratio A/B, Totalize, Phase, Peak • 10 mV trigger resolution class; extensive arming/trigger control • Optional OCXO / rubidium high-stability oscillators • Optional GPIB (IEEE-488) programming • Ten stored complete setups in non-volatile memory • Microprocessor-based programmable instrument

2201 Characteristics / Specifications

PARAMETER	VALUE
Model	2201
Manufacturer	Astronics / EADS / Racal Instruments (Racal Dana lineage)
Instrument Type	Universal counter / timer
Channels	2 standard; optional ChannelCto about 1.3 GHz
Max Frequency (A/B)	225 MHz
Frequency Resolution	9 digits class
Time Interval	averaged resolution about 10 ps class
Trigger Resolution	10 mV class
Measurement Functions	Frequency A/B/(C); Period; Rise/Fall; TIAto B; Totalize; Ratio A/B; PhaseAto B; Peak amplitude
Setup Memory	10 complete non-volatile setups
Ordering Class Examples	407743-series configurations (confirm faceplate/options) Standard Operating Conditions Set input impedance, attenuation, and trigger levels appropriately. Use high-stability oscillator options when absolute frequency accuracy is required. Observe maximum input ratings from the 2201 operator manual.
Functions	Frequency, Period, TI, TI Delay, Pulse Width, Ratio A/B, Totalize, Phase, Peak

2201 Specifications

PARAMETER	VALUE
Astronics / EADS / Racal 2201 Universal Counter / Timer	Overview
Key Features	- Two-channel universal counter/timer (optional Channel C to ~1.3 GHz)
Technical Specifications	Model: 2201

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.

performance two-channel universal counter/timer for R&D bench and ATE use. It measures Frequency, Period, Time Interval, Time Interval Delay, Pulse Width, Frequency Ratio A/B, Totalize, Phase, and Peak Signal Voltage, with an optional third channel for RF to about 1.3 GHz. Frequency measurement extends to 225 MHz on the standard channels with nine-digit resolution class and averaged time-interval resolution to about 10 ps. Trigger resolution is 10 mV class with comprehensive arming and trigger control. Options include GPIB, OCXO or rubidium references, and the high-frequency Channel C. Ten non-volatile complete instrument setups can be stored and recalled.

Applications

Benchtop and ATE frequency/timing metrology; period and time-interval characterization; phase and peak measurements; optional RF counting to 1.3 GHz; automated counter/timer in Racal Instruments systems.

Key Features

- Two-channel universal counter/timer (optional ChannelCto ~1.3 GHz)
- Frequency to 225 MHz (standard channels)
- Nine-digit frequency resolution class
- Averaged time-interval resolution to about 10 ps
- Functions: Frequency, Period, TI, TI Delay, Pulse Width, Ratio A/B, Totalize, Phase, Peak
- 10 mV trigger resolution class; extensive arming/trigger control
- Optional OCXO / rubidium high-stability oscillators
- Optional GPIB (IEEE-488) programming
- Ten stored complete setups in non-volatile memory
- Microprocessor-based programmable instrument

Technical Specifications

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PARAMETER	VALUE
Model	2201
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Frequency Resolution	9 digits class
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Trigger Resolution	10 mV class
Measurement Functions	Frequency A/B/(C); Period; Rise/Fall; TIAto B; Totalize; Ratio A/B; PhaseAto B; Peak amplitude
Setup Memory	10 complete non-volatile setups

Options Class: GPIB; OCXO; Rubidium; Option 41 Channel C (per operator manual ordering matrix)
Ordering Class Examples: 407743-series configurations (confirm faceplate/options)

Standard Operating Conditions

Set input impedance, attenuation, and trigger levels appropriately. Use high-stability oscillator options when absolute frequency accuracy is required. Observe maximum input ratings from the 2201 operator manual.

Operational Notes

Confirm installed options (GPIB, OCX0/Rb, Channel C) from the rear/option labels. Do not assume 1.3 GHz capability unless Option 41 / ChannelChardware is present.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: N/A — off-catalog OEM datasheet. See OEM documentation · Not listed on Aumictech inventory.

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

Aumictech

788 S 500 E, Pleasant Grove, UT 84062
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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.