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Data Sheet

July 31, 2026

YOKOGAWA

Yokogawa 701251 Analog Voltage Input Module, 1MS/s

Yokogawa 701251 Analog Voltage Input Module, High-Speed 1 MS/s 16-Bit Isolation Module

The Yokogawa 701251 is a two-channel high-speed, high-resolution isolated analog voltage input module for Yokogawa ScopeCorder and high-speed data acquisition platforms.

Yokogawa documentation describes it as a 1 MS/s, 16-bit isolation module with up to 300 kHz bandwidth, high sensitivity down to 1 mV/div, low noise, and IsoPRO optical isolation supporting 600 V isolated measurements when used with appropriate probes. The Yokogawa 701251 is a two-channel high-speed, high-resolution isolated analog voltage input module for Yokogawa ScopeCorder and high-speed data acquisition platforms. Yokogawa documentation describes it as a 1 MS/s, 16-bit isolation module with up to 300 kHz bandwidth, high sensitivity down to 1 mV/div, low noise, and IsoPRO optical isolation supporting 600 V isolated measurements when used with appropriate probes. The 701251 is intended for high-resolution capture of high-frequency and high-voltage analog signals where channel isolation, noise immunity, and fine voltage sensitivity matter. Typical uses include power electronics and inverter observation, mechatronics and electromechanical transient recording, floating/high-common-mode voltage measurements, and general multiphase ScopeCorder waveform recording.

No photo

MODEL

Yokogawa 701251

CALIBRATION

**N/A — off-catalog
OEM datasheet**

CONDITION

**See OEM
documentation**

STATUS

**Not listed on
Aumictech
inventory**

RFQ / SKU

701251

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

- 2 isolated unbalanced input channels
- Maximum sample rate 1 MS/s
- 16-bit A/D conversion (2400 LSB/div)
- Analog bandwidth up to DC to 300 kHz
- DC accuracy +/-0.25% of 10 div on primary ranges
- High sensitivity down to 1 mV/div
- Low noise approximately +/-100 uV typical
- High noise immunity and optical isolation (IsoPRO)
- Up to 600 V (DC + ACpeak) isolated measurements with compatible 10:1 or 100:1 probes
- Isolated BNC inputs; AC, DC, and GND coupling
- Bandwidth limit filters: OFF / 400 Hz / 4 kHz / 40 kHz

Specifications

PARAMETER	VALUE
Model	701251
Instrument Type	High-Speed 1 MS/s 16-Bit Isolation Analog Voltage Input Module
Input Channels	2
Input Type	Isolated unbalanced
Input Coupling	AC, DC, and GND
Input Connector	BNC (isolated type)
Input Impedance	1 MOhm +/-1%, approximately 35 pF
Common Mode Rejection Ratio	80 dB (50/60 Hz) or more, typical
Maximum Sample Rate	1 MS/s
A/D Conversion Resolution	16-bit (2400 LSB/div)

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.

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Maximum Sample Rate	1 MS/s
A/D Conversion Resolution	16-bit (2400 LSB/div)

Voltage-Axis Sensitivity (Direct Input): 1 mV/div to 20 V/div (1-2-5 steps)
Frequency Range (-3 dB): DC to 300 kHz (5 mV/div to 20 V/div); DC to 200 kHz (1 mV/div and 2 mV/div)
Bandwidth Limit: OFF / 400 Hz / 4 kHz / 40 kHz
AC Coupler Low-Frequency -3 dB Point: 1 Hz or less (0.1 Hz or less with 700929/702902; 0.01 Hz or less with 701947)
Weight: Approximately 300 g

Maximum Input Voltage (1 kHz or Less)
With 700929 (10:1), 702902 (10:1), or 701947 (100:1): 600 V (DC + ACpeak)
With 701901 + 701954 (1:1): 140 V (DC + ACpeak)
Direct Input: 42 V (DC + ACpeak)

Maximum Allowable Common Mode / Rated Voltage to Earth (1 kHz or Less)
With 700929 / 702902 / 701947: 400 Vrms (CAT I), 300 Vrms (CAT II)
With 701901 + 701954 (1:1): 400 Vrms (CAT I), 300 Vrms (CAT II)
Direct Input: 42 V (DC + ACpeak) (CAT I and CAT II, 30 Vrms)

Vertical Accuracy

Specifications

PARAMETER	VALUE
DC Accuracy (5 mV/div to 20 V/div)	+/- (0.25% of 10 div)
DC Accuracy (2 mV/div)	+/- (0.3% of 10 div)
DC Accuracy (1 mV/div)	+/- (0.5% of 10 div)

Temperature Coefficient, Zero Point (5 mV/div to 20 V/div): +/- (0.02% of 10 div)/C, typical
Temperature Coefficient, Zero Point (2 mV/div): +/- (0.05% of 10 div)/C, typical

Temperature Coefficient, Zero Point (1 mV/div): +/- (0.10% of 10 div)/C, typical
Temperature Coefficient, Gain (1 mV/div to 20 V/div): +/- (0.02% of 10 div)/C, typical

Isolation And Probing

IsoPRO high-speed optical-fiber isolation technology enables 600 V isolated measurements when used with compatible isolated BNC probes (700929, 702902, or 701947). Each channel is optically isolated to reduce ground loops and common-mode interference while supporting floating measurements in high-voltage systems. Probe attenuation settings commonly include voltage probe ratios such as 1:1, 10:1, 100:1, and 1000:1 depending on accessory and mainframe support.

Platform Compatibility

Compatible ScopeCorder / DAQ mainframes typically include DL850E, DL850EV, SL1000, and related platforms such as DL950 and SL2000 per Yokogawa product documentation. Not compatible with DL350 in the plug-in module matrix. Also historically used with DL750-series instruments. Probes are not included with the module. Firmware updates may be required depending on the main unit.

Standard Operating Conditions

Specifications are generally valid under standard operating conditions of 23 C +/-5 C, 20 to 80% RH, after warm-up of 30 minutes or more, and after calibration. Recommended calibration period: 1 year.

Operational Notes

The 701251 emphasizes high vertical resolution and sensitivity rather than the multi-megahertz bandwidth of faster 10 MS/s or 100 MS/s ScopeCorder modules. It is suited to precise voltage waveform capture where isolation, low noise, and 16-bit resolution are prioritized over ultra-high sample rate.

Notes

This manual OEM source was compiled from official Yokogawa ScopeCorder plug-in module specifications (DL850E/DL850EV/DL350/SL1000 and related bulletins) and Yokogawa 701251 High-Resolution Isolation Module product documentation.

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

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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.