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Data Sheet

August 1, 2026

YOKOGAWA

Yokogawa 701270 Strain Input Module (NDIS)

Yokogawa 701270 Strain Input Module (NDIS) The Yokogawa 701270 is a two-channel isolated strain input plug-in module for Yokogawa ScopeCorder platforms. It uses NDIS connectors recommended by JSNDI and supports DC bridge measurement with electronic auto balancing and built-in bridge excitation of 2 V, 5 V, or 10 V. The module measures strain (and mV/V transducer ranges) at up to 100 kS/s with 16-bit resolution and DC to 20 kHz bandwidth. Intended for strain-gauge and strain-gauge transducer measurements synchronized with other ScopeCorder channels. Typical uses include structural and mechanical testing, load-cell and pressure-transducer logging, vibration and fatigue studies, and mixed electromechanical data acquisition on DL850E/EV, DL350, SL1000, and related mainframes. The Yokogawa 701270 is a two-channel isolated strain input plug-in module for Yokogawa ScopeCorder platforms. It uses NDIS connectors recommended by JSNDI and supports DC bridge measurement with electronic auto balancing and built-in bridge excitation of 2 V, 5 V, or 10 V. The module measures strain (and mV/V transducer ranges) at up to 100 kS/s with 16-bit resolution and DC to 20 kHz bandwidth. Intended for strain-gauge and strain-gauge transducer measurements synchronized with other ScopeCorder channels. Typical uses include structural and mechanical testing, load-cell and pressure-transducer logging, vibration

No photo

MODEL

Yokogawa 701270

CALIBRATION

**N/A — off-catalog
OEM datasheet**

CONDITION

**See OEM
documentation**

STATUS

**Not listed on
Aumictech
inventory**

RFQ / SKU

701270

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 channels, DC bridge with electronic auto balance
- NDIS input connectors (JSNDI-recommended style)
- Built-in bridge voltages: 2 V, 5 V, 10 V
- Gauge resistance support from 120 ohm to 1000 ohm (bridge-voltage dependent)
- Maximum sample rate 100 kS/s; bandwidth DC to 20 kHz
- 16-bit A/D (4800 LSB/div, +/-FS representation)
- Strain ranges from 500 uSTR to 20000 uSTR full scale
- mV/V range support for transducer systems
- Gauge factor settable 1.90 to 2.20 in 0.01 steps
- Compatible with recommended NDIS bridge heads 701955 (120 ohm) and 701956 (350 ohm)

Specifications

PARAMETER	VALUE
Model	701270
Instrument Type	Strain Module (NDIS)
Input Channels	2
Input Type	DC bridge (auto balancing), balanced differential, isolated
Auto Balance Type	Electronic auto balance
Auto Balance Range	+/-10000 uSTR (1-gauge method)
Bridge Voltage	Selectable 2 V, 5 V, or 10 V
Gauge Resistance	120 ohm to 1000 ohm at 2 V bridge; 350 ohm to 1000 ohm at 2 V, 5 V, and 10 V
Gauge Factor	1.90 to 2.20 (0.01 steps)
Maximum Sample Rate	100 kS/s

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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Model	701270
Instrument Type	Strain Module (NDIS)
Input Channels	2
Input Type	DC bridge (auto balancing), balanced differential, isolated
Auto Balance Type	Electronic auto balance
Auto Balance Range	+/-10000 uSTR (1-gauge method)
Bridge Voltage	Selectable 2 V, 5 V, or 10 V
Gauge Resistance	120 ohm to 1000 ohm at 2 V bridge; 350 ohm to 1000 ohm at 2 V, 5 V, and 10 V
Gauge Factor	1.90 to 2.20 (0.01 steps)
Maximum Sample Rate	100 kS/s
Frequency Range (-3 dB): DC to 20 kHz	
A/D Conversion Resolution: 16 bit (4800 LSB/div; Upper = +FS, Lower = -FS) mV/V Range Support: mV/V range = 0.5 x (uSTR range / 1000)	
Measurement Ranges	
Measurement range (FS) / measurable range (-FS to +FS):	
500 uSTR / -500 to +500 uSTR	
1000 uSTR / -1000 to +1000 uSTR	
2000 uSTR / -2000 to +2000 uSTR	
5000 uSTR / -5000 to +5000 uSTR	
10000 uSTR / -10000 to +10000 uSTR	
20000 uSTR / -20000 to +20000 uSTR	
Input Limits And Accuracy	
Maximum Input Voltage (1 kHz or less): 10 V (DC + ACpeak)	
Maximum Rated Voltage to Earth (1 kHz or less): 42 V (DC + ACpeak) (CAT I, 30 Vrms)	
DC Accuracy: +/- (0.5% of FS + 5 uSTR)	
Temperature Coefficient, Zero Point: +/-5 uSTR/C (typical)	
Temperature Coefficient, Gain: +/- (0.02% of FS)/C (typical)	
Bandwidth Limit: Full / 10 Hz / 100 Hz / 1 kHz	
Weight: Approximately 260 g	
Connectors And Accessories	
Specifications	
PARAMETER	VALUE
Input Connector	NDIS

PARAMETER	VALUE
Standard Accessories	NDIS connectors, 2 pieces
Recommended Bridge Heads (sold separately)	701955 (NDIS 120 ohm with 5 m cable), 701956 (NDIS 350 ohm with 5 m cable)
Related Module	701271 Strain Module (DSUB, Shunt-CAL) provides D-Sub connectors and shunt calibration

Platform Compatibility

Compatible with ScopeCorder mainframes including DL350, DL850E, DL850EV, SL1000, and related platforms that accept 701270. Strain modules must be balanced before measurement. Probes and bridge heads are not included with the module. Firmware updates may be required depending on the main unit.

Standard Operating Conditions

Specifications generally apply under Yokogawa ScopeCorder standard conditions (typically 23 C +/-5 C after warm-up). Recommended calibration period: 1 year.

Operational Notes

Select bridge voltage and gauge factor to match the connected gauge or transducer. Use the recommended NDIS bridge head for reliable excitation and signal integrity. Balance each channel before acquiring data. Observe the 10 V maximum input and 42 V earth rating for safe installation.

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.