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Data Sheet
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YOKOGAWA

Yokogawa 701261 Universal Voltage & Temperature Input Module

Yokogawa 701261 Universal Voltage and Temperature Input Module The Yokogawa 701261 isatwo-channel isolated universal ScopeCorder plug-in module for switchable voltage and thermocouple temperature measurement. It is the non-AAF counterpart to the 701262 (same universal module with built-in anti-aliasing filter). The module supports synchronous voltage and temperature acquisition onacommon time base for correlated electrical and thermal analysis on DL350, DL850E/EV, SL1000, DL950, and related ScopeCorder platforms. The Yokogawa 701261 isatwo-channel isolated universal ScopeCorder plug-in module for switchable voltage and thermocouple temperature measurement. It is the non-AAF counterpart to the 701262 (same universal module with built-in anti-aliasing filter). The module supports synchronous voltage and temperature acquisition onacommon time base for correlated electrical and thermal analysis on DL350, DL850E/EV, SL1000, DL950, and related ScopeCorder platforms. Power electronics, battery testing, and design-validation work where voltage waveforms and temperature must be recorded together. Typical uses include isolated low-voltage waveform capture up to 100 kS/s and thermocouple logging up to 500 S/s.

No photo

MODEL **Yokogawa 701261**	CALIBRATION **N/A — off-catalog OEM datasheet**
CONDITION **See OEM documentation**	STATUS **Not listed on Aumictech inventory**
RFQ / SKU **701261**	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 • Switchable voltage or thermocouple temperature measurement • Voltage sample rate up to 100 kS/s; temperature update up to 500 S/s (500 Hz) • 16-bit voltage resolution (2400 LSB/div); 0.1 C temperature resolution • Voltage bandwidth DC to 40 kHz; temperature bandwidth DC to 100 Hz • DC accuracy +/-0.25% of 10 div • Supports thermocouples K, E, J, T, L, U, N, R, S, B, W, and KP/AuFe • Binding-post inputs; TC, DC, AC, and GND coupling • No built-in anti-aliasing filter (use 701262 if AAF is required) • Compatible with DL350, DL850E/EV, DL950, SL1000, and related ScopeCorder platforms

Specifications

PARAMETER	VALUE
Model	701261
Instrument Type	Universal (Voltage/Temperature) Module
Input Channels	2
Input Type	Isolated unbalanced
Input Coupling	TC (thermocouple), DC, AC, and GND
Input Connector	Binding post
Input Impedance	Approximately 1 MOhm
Maximum Sample Rate (Voltage)	100 kS/s
Data Update Rate (Temperature)	500 Hz (500 S/s)

Specifications

PARAMETER	VALUE
Type K	-200 C to 1300 C; +/- (0.1% of reading + 1.5 C); for -200 C to 0 C use +/- (0.2% of reading + 1.5 C)
Type E	-200 C to 800 C
Type J	-200 C to 1100 C
Type T	-200 C to 400 C
Type L	-200 C to 900 C
Type U	-200 C to 400 C
Type N	0 C to 1300 C
TypesRand S	0 C to 1700 C; +/- (0.1% of reading + 3 C); except 0 to 200 C: +/-8 C; 200 to 800 C: +/-5 C
Type B	0 C to 1800 C (effective 400 C to 1800 C); +/- (0.1% of reading + 2 C); except 400 to 700 C: +/-8 C
Type W	0 C to 2300 C; +/- (0.1% of reading + 3 C)
KP/AuFe	0 K to 300 K; 0 to 50 K: +/-4 K; 50 to 300 K: +/-2.5 K
Thermocouple Standard	JIS C1602 for K, E, J, T, N, R, S, B
Bandwidth Limit (Temperature)	Full / 2 Hz / 8 Hz / 30 Hz

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	701261
Instrument Type	Universal (Voltage/Temperature) Module
Input Channels	2
Input Type	Isolated unbalanced
Input Coupling	TC (thermocouple), DC, AC, and GND
Input Connector	Binding post
Input Impedance	Approximately 1 MOhm
Maximum Sample Rate (Voltage)	100 kS/s
Data Update Rate (Temperature)	500 Hz (500 S/s)

Frequency Range (-3 dB): Voltage DC to 40 kHz; Temperature DC to 100 Hz
A/D / Vertical Resolution: Voltage 16-bit (2400 LSB/div); Temperature 0.1 C
AC Coupler Low-Frequency -3 dB Point (Voltage): 0.5 Hz or less

Specifications

PARAMETER	VALUE
Weight	Approximately 280 g to 300 g class
Voltage Measurement	Voltage-Axis Sensitivity: 5 mV/div to 20 V/div (1-2-5 steps)
Vertical (Voltage) Axis Accuracy	+/- (0.25% of 10 div)

Temperature Coefficient, Zero Point: +/- (0.01% of 10 div)/C, typical
Temperature Coefficient, Gain: +/- (0.02% of 10 div)/C, typical
Bandwidth Limit (Voltage): Full / 40 Hz / 400 Hz / 4 kHz (no AUTO AAF as on 701262)

Temperature Measurement
Accuracy figures exclude reference junction compensation accuracy.

Specifications

PARAMETER	VALUE
Type K	-200 C to 1300 C; +/- (0.1% of reading + 1.5 C); for -200 C to 0 C use +/- (0.2% of reading + 1.5 C)
Type E	-200 C to 800 C
Type J	-200 C to 1100 C

PARAMETER	VALUE
Type T	-200 C to 400 C
Type L	-200 C to 900 C
Type U	-200 C to 400 C
Type N	0 C to 1300 C
TypesRand S	0 C to 1700 C; +/- (0.1% of reading + 3 C); except 0 to 200 C: +/-8 C; 200 to 800 C: +/-5 C
Type B	0 C to 1800 C (effective 400 C to 1800 C); +/- (0.1% of reading + 2 C); except 400 to 700 C: +/-8 C
Type W	0 C to 2300 C; +/- (0.1% of reading + 3 C)
KP/AuFe	0 K to 300 K; 0 to 50 K: +/-4 K; 50 to 300 K: +/-2.5 K
Thermocouple Standard	JIS C1602 for K, E, J, T, N, R, S, B
Bandwidth Limit (Temperature)	Full / 2 Hz / 8 Hz / 30 Hz

Reference Junction Compensation
RJC Accuracy (input terminal temperature balanced): K, E, J, T, L, U, N: +/-1 C; R, S, B, W: +/-1.5 C; KP/AuFe: +/-1 K

Input Voltage And Isolation Limits (1 kHz or Less)
Maximum Input Voltage: 42 V (DC + ACpeak) safety-standard value; 150 V (DC + ACpeak) maximum allowable without damage
Maximum Rated Voltage to Earth / Common Mode: 42 V (DC + ACpeak), CATIand CAT II (30 Vrms)

Platform Compatibility
Compatible with ScopeCorder / DAQ mainframes including DL350, DL850E, DL850EV, SL1000, and related platforms such as DL950. The 701262 is the same universal module with AAF. Probes are not included. Firmware updates may be required depending on the main unit.

Standard Operating Conditions
Specifications generally apply at 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
Each channel can be configured for voltage or thermocouple temperature. Without AAF, choose sample rates carefully relative to signal bandwidth to avoid aliasing, or use the 701262. Binding-post inputs support thermocouple leads and low-voltage wiring; observe the 42 V safety rating for floating measurements.

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

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