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**Data Sheet**

August 1, 2026

YOKOGAWA

# Yokogawa 701265 High-Precision Temperature Input Module

Yokogawa 701265 High-Precision Temperature / Voltage Input Module The Yokogawa 701265 is a two-channel isolated Temperature / High-Precision Voltage ScopeCorder plug-in module. It is optimized for high-sensitivity voltage measurement (down to 100  $\mu\text{V}/\text{div}$ ) and thermocouple temperature measurement at 500 S/s. Compared with the 701261/701262 universal modules, the 701265 emphasizes finer voltage sensitivity and tighter voltage accuracy at lower bandwidth (DC to 100 Hz). The later low-noise sibling is 720266 (125 S/s, DC to 15 Hz). The Yokogawa 701265 is a two-channel isolated Temperature / High-Precision Voltage ScopeCorder plug-in module. It is optimized for high-sensitivity voltage measurement (down to 100  $\mu\text{V}/\text{div}$ ) and thermocouple temperature measurement at 500 S/s. Compared with the 701261/701262 universal modules, the 701265 emphasizes finer voltage sensitivity and tighter voltage accuracy at lower bandwidth (DC to 100 Hz). The later low-noise sibling is 720266 (125 S/s, DC to 15 Hz). Precision DC and low-frequency voltage measurement, thermocouple temperature logging, sensor and transducer monitoring, battery and low-level analog validation, and thermal correlation with electrical signals on ScopeCorder platforms.

No photo

MODEL

**Yokogawa 701265**

CALIBRATION

**N/A — off-catalog  
OEM datasheet**

CONDITION

**See OEM  
documentation**

STATUS

**Not listed on  
Aumictech  
inventory**

RFQ / SKU

**701265**

LISTING

**Off-catalog — OEM dat  
asheet only**

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

## Features & description

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From manufacturer datasheet

### Features

- 2 isolated unbalanced input channels
- Switchable voltage or thermocouple temperature measurement
- High-sensitivity voltage ranges from 100  $\mu\text{V}/\text{div}$
- Data update rate 500 S/s (500 Hz) for voltage and temperature
- 16-bit voltage resolution (2400 LSB/div); 0.1 C temperature resolution
- Voltage bandwidth DC to 100 Hz
- Vertical voltage accuracy  $\pm$  (0.08% of 10 div + 2  $\mu\text{V}$ )
- Supports thermocouples K, E, J, T, L, U, N, R, S, B, W, and KP/AuFe
- Binding-post inputs; TC, DC, and GND coupling
- Compatible with DL350, DL850E/EV, SL1000, and related ScopeCorder platforms

# Specifications

| PARAMETER        | VALUE                                                 |
|------------------|-------------------------------------------------------|
| Model            | 701265                                                |
| Instrument Type  | Temperature / High-Precision Voltage Isolation Module |
| Input Channels   | 2                                                     |
| Input Type       | Isolated unbalanced                                   |
| Input Coupling   | TC (thermocouple), DC, and GND                        |
| Input Connector  | Binding post                                          |
| Input Impedance  | Approximately 1 MOhm                                  |
| Data Update Rate | Temperature and voltage: 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                                                                 |

# 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                                                                                                          | 701265                                                                                               |
| Instrument Type                                                                                                | Temperature / High-Precision Voltage Isolation Module                                                |
| Input Channels                                                                                                 | 2                                                                                                    |
| Input Type                                                                                                     | Isolated unbalanced                                                                                  |
| Input Coupling                                                                                                 | TC (thermocouple), DC, and GND                                                                       |
| Input Connector                                                                                                | Binding post                                                                                         |
| Input Impedance                                                                                                | Approximately 1 MOhm                                                                                 |
| Data Update Rate                                                                                               | Temperature and voltage: 500 Hz (500 S/s)                                                            |
| Frequency Range (-3 dB): DC to 100 Hz                                                                          |                                                                                                      |
| A/D Conversion 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 270 g                                                                                  |
| Voltage Measurement                                                                                            | Voltage-Axis Sensitivity: 100 uV/div to 10 V/div (1-2-5 steps)                                       |
| Vertical (Voltage) Axis Accuracy                                                                               | +/- (0.08% of 10 div + 2 uV)                                                                         |
| Temperature Coefficient, Zero Point: +/- ((0.01% of 10 div)/C + 0.05 uV)/C (typical)                           |                                                                                                      |
| Temperature Coefficient, Gain: +/- (0.02% of 10 div)/C (typical)                                               |                                                                                                      |
| Bandwidth Limit: Full / 2 Hz / 8 Hz / 30 Hz                                                                    |                                                                                                      |
| Noise: typically on the order ofafew microvolts (family; low-noise optimized 720266 quotes about +/-4 uV typ.) |                                                                                                      |
| 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                                                                |

#### 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)

Maximum Rated Voltage to Earth: 42 V (DC + ACpeak) (CAT I, 30 Vrms)

#### Platform Compatibility

Compatible with ScopeCorder mainframes including DL350, DL850E, DL850EV, SL1000, and related platforms that list 701265 support. Probes are not included. Firmware updates may be required. For lower-noise / lower-bandwidth work, see 720266.

#### 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

Use binding posts carefully for low-level signals; minimize thermocouple junction errors and thermoelectric EMFs. Observe the 42 V isolation rating. For higher-bandwidth voltage capture, useadifferent ScopeCorder voltage module (for example 701251 / 701255 / 701261 class).

### 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](mailto:sales@aumictech.com) · +1 (484) 841-9341

#### Aumictech

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NIST-traceable calibration · SAM registered ·  
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NAICS 423690 · 811210 · 541380  
Generated August 1, 2026

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