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Temperature & Resistance Data Acquisition Modules Catalog

Product Name	Product Model	Features	Picture
8-Channel Thermocouple Temperature Measurement Module	ZH-T08TC-14 (8 Channels, RS485 + RS232) ZH-T06TC-34 (6 Channels, Ethernet)	1. Supports 8-channel thermocouple inputs (B, C, E, J, K, N, R, S, T types); 2. Resolution: 0.1°C; Accuracy up to $\pm 0.3^{\circ}\text{C}$; 3. Wide power supply: 9VDC to 30VDC; 4. Communication options: RS485, RS232, or Ethernet; 5. Temperature measurement range: -270°C to $+1700^{\circ}\text{C}$; 6. Selectable refresh intervals: 340ms, 500ms, 800ms, or 1500ms (default).	

8-Channel RTD Temperature Measurement Module	ZH-T08PT100-14 (8-Channel PT100, RS485) ZH-T08PT1000-14 (8-Channel PT1000, RS485) ZH-T06PT100-34N1 (6-Channel PT100, Ethernet) ZH-T06PT1000-34N1 (6-Channel PT1000, Ethernet)	1. Temperature measurement range: -200°C to +800°C; 2. Accuracy: $\pm 0.1^{\circ}\text{C}$; Resolution: 0.1°C; 3. Operating temperature: -40°C to +70°C; 4. Temperature drift: $\leq \pm 10\text{ppm}/^{\circ}\text{C}$; 5. Selectable update rates: 300ms, 500ms, 800ms, or 1500ms (default); 6. Power supply: 9VDC to 36VDC; 7. Communication interface: RS485 (default) or RS232 configurable; Ethernet versions also support RS485 communication; 8. Supports Modbus-RTU and Modbus-TCP protocols.	
8-Channel Resistance Measurement Module	ZH-T08R-34N1 (Ethernet) ZH-T08R-74N1 (CAN Bus)	1. 8-channel resistance measurement from 0.02Ω to $40\text{M}\Omega$; 2. Accuracy: 0.1%; Resolution: $1\text{m}\Omega$; 3. Wide power supply: 9VDC to 30VDC; 4. Communication options: RS485, Ethernet, or CAN Bus; 5. Independent range setting for each channel; selectable ranges: 25Ω, $1\text{k}\Omega$, $5\text{k}\Omega$, $20\text{k}\Omega$, $100\text{k}\Omega$, $1\text{M}\Omega$, $10\text{M}\Omega$, $40\text{M}\Omega$; 6. Adjustable sampling period from 30ms to 600ms; 7. Supports measurement of diodes, NTC, PTC, PT100, and PT1000 temperature sensors.	
16-Channel Thermocouple Temperature Measurement Module	ZH-T16TC-14 (16 Channels, RS485 + RS232) ZH-T16TC-34 (16 Channels, Ethernet)	1. Supports 16-channel thermocouple inputs (B, C, E, J, K, N, R, S, T types); 2. Resolution: 0.1°C; Accuracy up to $\pm 0.3^{\circ}\text{C}$; 3. Wide power supply: 9VDC to 30VDC; 4. Communication options: RS485, RS232, or Ethernet; 5. Temperature measurement range: -270°C to +1700°C; 6. Selectable refresh intervals: 340ms, 500ms, 800ms, or 1500ms (default).	
16-Channel RTD Temperature Measurement Module	ZH-T16PT100-14 (16-Channel PT100, RS485) ZH-T16PT1000-14 (16-Channel PT1000, RS485) ZH-T16PT100-34N1 (16-Channel PT100, Ethernet) ZH-T16PT1000-34N1 (16-Channel PT1000, Ethernet)	1. Temperature measurement range: -200°C to +800°C; 2. Accuracy: $\pm 0.1^{\circ}\text{C}$; Resolution: 0.1°C; 3. Operating temperature: -40°C to +70°C; 4. Supports PT100, PT1000, Cu50, and Cu100 RTD sensors; 5. Selectable update rates: 300ms, 500ms, 1s, or 2s (default); 6. Power supply: 9VDC to 36VDC; 7. Communication interface: RS485; Ethernet versions also provide RS485 communication; 8. Supports Modbus-RTU and Modbus-TCP protocols.	

8-Channel NTC Temperature Measurement Module	ZH-T08NTC-14N1 (RS485) ZH-T08NTC-34N1 (Ethernet)	1. Supports NTC sensors such as NTC 10K B=3435, NTC 10K B=3950, NTC 100K B=3950; 2. Accuracy: $\pm 0.1^{\circ}\text{C}$; Resolution: 0.1°C; 3. Operating temperature: -40°C to $+70^{\circ}\text{C}$; 4. Temperature drift: $\leq \pm 10\text{ppm}/^{\circ}\text{C}$; 5. Selectable update rates: 300ms, 500ms, 800ms, or 1500ms (default); 6. Power supply: 9VDC to 36VDC; 7. Communication interface: RS485 or Ethernet; 8. Supports Modbus-RTU and Modbus-TCP protocols.	
8-Channel Fully Isolated Thermocouple Temperature Measurement Module	ZH-T08TI-14N1 (RS485) ZH-T08TI-34N1 (Ethernet + RS485) ZH-T08TI-74N1 (CAN Bus + RS485)	1. Supports 8-channel thermocouple inputs (B, C, E, J, K, N, R, S, T types); 2. Resolution: 0.1°C; Accuracy up to $\pm 0.3^{\circ}\text{C}$; 3. Wide power supply: 9VDC to 30VDC; 4. Communication options: CAN Bus, RS485, or Ethernet; 5. Full temperature range measurement: -270°C to $+1700^{\circ}\text{C}$; 6. Selectable refresh intervals: 45ms, 100ms (default), 220ms, or 450ms; 7. Provides both Celsius ($^{\circ}\text{C}$) and Fahrenheit ($^{\circ}\text{F}$) registers; 8. Channel-to-channel isolation; measurement channels, power supply, and communication interfaces are fully isolated for maximum reliability.	
4-Wire 4-Channel Fully Isolated High-Precision Resistance Measurement Module	ZH-RI04-14N1 (RS485) ZH-RI04-34N1 (Ethernet)	1. 4-wire, 4-channel high-precision resistance measurement; 2. Accuracy: 0.1%; Resolution: $1\text{m}\Omega$; 3. Wide power supply: 9VDC to 30VDC; 4. Communication options: RS485 or Ethernet; 5. Measurement ranges from 20Ω to $200\text{k}\Omega$; 6. Adjustable sampling speeds: 4ms, 6ms, 10ms, or 20ms; 7. Channel isolation with independent isolation between inputs, power supply, and communication interfaces.	