



Tehničke karakteristike

Order No.	CTH2 231-7ND32
Physical Features	
Dimension (W×H×D)	71.3 × 96 × 62mm
LED indicator	24VDC Power supply indicator: ON = no fault, OFF = no power; SF indicator, ON=module fault, Blink=input signal error, OFF=normal;
Power Consumption	
+5VDC power loss	87mA
L+	60mA
L+Coil voltage range	20.4~28.8VDC
Power Consumption	1.7W
Input sign	
RTD/PTC/NTC input range	RTD type (choose one) : Pt-100 (3850ppm, 3920ppm, 3850.55ppm, 3916ppm, 3902ppm) NTC (R25=10kΩ/B=3950, R25=10kΩ/B=3435)
Temperature measurement range	Pt-100: -50°C~850°C NTC (R25=10K, B=3950) : -40°C~120°C NTC (R25=10K, B=3435) : -40°C~150°C
Voltage input	0V~5V, 0V~10V, ±5V, ±10V
Current input	0~20mA
Input number	2PT100/2NTC and 2AI
Isolation	
Field side to logical circuit	500VAC
Field side to 24VDC	500VAC
24VDC to logical circuit	500VAC
Common mode rejection	>120dB@120VAC
Sample Features	
Temperature resolution	0.1°C/0.1°F
Voltage resolution	15bit+sign bit
Measuring principle	Σ-Δ
Module update time (all channel)	425ms
Wire length to sensor	Max. 100m
Wire loop resistance	Max. 20Ω
Noise suppression	85dB@50Hz/60Hz/400Hz

Data format	Temperature (NTC: R25=10kΩ, B=3950K) : -400~1200 (just for channel 1、2) Temperature (NTC: R25=10kΩ, B=3435K) : -400~1500 (just for channel 1、2) Temperature (PT100) : -500~2000 (just for channel 1、2) voltage/current: Unipolarity 0~32000, Bipolarity -32000~+32000 (just for channel 3、4)
Input impedance	Voltage input>10MΩ; current input=250Ω; NTC input>10MΩ
Max.voltage input	30VDC, 5VDC
Resolution	0.1°C/0.1°F
Input filter attenuation	-3dB@21kHz
Error	0.1%FS (resistance)
Repeatability	0.05%FS
Analog input addressing	AIW addressing

Input type	SW1	SW2	SW3	SW4	SW5
	just for channel 1、2			just for channel 3、4	
100ΩPT0.003850 (Factoryreset)	0	0	0	-	-
100ΩPT0.003920	0	0	1	-	-
100ΩPT0.00385055	0	1	0	-	-
100ΩPT0.003916	0	1	1	-	-
100ΩPT0.00302	1	0	0	-	-
NTC: R25=10kΩ, B=3950K	1	0	1	-	-
NTC :R25=10kΩ, B=3435K	1	1	0	-	-
Forbid	1	1	1	-	-
0—5V	-	-	-	0	0
0—20mA	-	-	-	0	0
0—10V	-	-	-	0	1
-10V—10V	-	-	-	1	0
-5V—5V	-	-	-	1	1

Order No.	CTH2 231-7NF32
Dimension (W×H×D)	71.3 x 96 x 62mm
LED indicator	24VDC Power supply indicator: ON = no fault, OFF = no power;

	SF indicator, ON=module fault, Blink=input signal error, OFF=normal;
Power Consumption	
+5VDC current loss	87mA
L+	32.5mA
L+Coil voltage range	20.4~28.8VDC
Power Consumption	1.8W
Input sign	
Input type	Pt100: $\alpha=3850\text{PPm}/3920\text{PPM}/3850.55\text{PPM}/3916\text{PPM}/3902\text{PM}$ NTC: R25=10k/B=3950或R25=10k/B=3435
Temperature measurement range	Pt100: -50°C~800°C NTC (R25=10k/B=3950) : -40°C~120°C NTC (R25=10k/B=3435) : -40°C~150°C
Input number	8PT100/8NTC
embedded I/O terminal	Yes
Power isolation or not	Yes
Field side to logical circuit	500VAC
Field side to 24VDC	500VAC
24VDC to logical circuit	500VAC
Common mode rejection	120dB@120VAC
Sample Features	
Temperature resolution	0.1°C/0.1°F
Measuring principle	Σ - Δ
Module update time (all channel)	825ms
Wire length to sensor	100m
Wire loop resistance	20 Ω
Noise suppression	85dB@50/400 Hz
Input impedance	>1K Ω
Measuring precision	$\pm 0.3^\circ\text{C}$
Disconnection detection	Pt100 detect 3 wires (NTC detect 2 wires) , detection time is no mare than 3 minutes

Input type	SW1	SW2	SW3
100Ω Pt 0.003850 (default)	0	0	0
100Ω Pt 0.003920	0	0	1
100Ω Pt 0.00385055	0	1	0
100Ω Pt 0.003916	0	1	1
100Ω Pt 0.00302	1	0	0
NTC R25=10K/B=3950	1	0	1
NTC R25=10K/B=3435	1	1	0
Forbid	1	1	1

VWxx	Channel 0	Channel 1	Channel 2	Channel 3	Channel 4	Channel 5	Channel 6	Channel 7
Slot 0	VW0	VW2	VW4	VW6	VW8	VW10	VW12	VW14
Slot 1	VW64	VW66	VW68	VW70	VW72	VW74	VW76	VW78
Slot 2	VW128	VW130	VW132	VW134	VW136	VW138	VW140	VW142
Slot 3	VW192	VW194	VW196	VW198	VW200	VW202	VW204	VW206
Slot 4	VW256	VW258	VW260	VW262	VW264	VW266	VW268	VW270
Slot 5	VW320	VW322	VW324	VW326	VW328	VW330	VW332	VW334
Slot 6	VW384	VW386	VW388	VW390	VW392	VW394	VW396	VW398

Dimenzije

型号		单位mm	
CTH2 221-1BH32	CTH2 231-7PD32		
CTH2 222-1BH32	CTH2 231-7PF32		
CTH2 222-1HH32	CTH2 231-7TF32		
CTH2 223-1BH32	CTH2 231-7TD32		
CTH2 223-1PH32	CTH2 231-7ND32		
CTH2 231-0HC32	CTH2 231-7NF32		
CTH2 235-0KD32	CTH2 231-7WA32		
CTH2 231-0HF32	CTH2 232-0HD32		
CTH2 231-7HB32	CTH2 277-0AA32		
CTH2 231-7HC32	CTH2 277-0AB32		
CTH2 231-7PB32	CTH2 253-1BH32		
CTH2 231-7PC32			