

Isolated Converters

CN-6000 Series



Features

- Multi-input
 - CN-610□-□: Thermocouple 12 types, RTD 5 types, Analog (mV, V, mA) 6 types
 - CN-640□-□: 0 to 50.00kHz
- Improved visibility with negative LCD: 12 segment, 3 colors (selectable red, green, yellow)
- Displays input type and unit on display part
- Various outputs
 - Alarm output: 1 EA / 2 EA / 4 EA
 - 0 - 20 mA transmission output (adjustable insulation, output range), 0 - 10 VDC \rightleftharpoons voltage output (adjustable insulation, output range)
- Various functions
 - High / Low peak input monitoring
 - Alarm output (upper / lower, sensor break)
 - Transmission output / display scale
 - Digital input key (DI), etc.
- Built-in power supply for sensor / transmitter (24 VDC \rightleftharpoons)

Specifications

Model	CN-610□-□	CN-640□-□
Input type ⁰¹⁾	Universal - Temperature sensor : RTD, thermocouple - Analog: voltage, current	Pulse
Display method	12-segment (selectable red, green, yellow) LCD (character size: 6.4 × 11.0 mm), Graphic bar and input type / unit display part (red) LCD (character size: 1.4 × 2.75 mm)	
Display accuracy ⁰²⁾	Dependent on the ambient temperature	
25 ± 5°C	± 0.2 % F.S. ± 1 digit	
-10 to 20°C, 30 to 50°C	± 0.3 % F.S. ± 1 digit	
Display cycle ⁰³⁾	-	Same with pulse input cycle
Sampling cycle	Temperature sensor input: 250 ms Analog input: 100 ms	-
Unit weight (packaged)	≈ 160 g (≈ 301 g)	≈ 200 g (≈ 340 g)
Approval	CE ENEC	

01) For details, refer to the input type and range.

02) Thermocouple, below -100 °C: ± 0.4 % F.S. ± 1 digit
Thermocouple T, U: min. ± 2.0 °C

03) When pulse input cycle is over 10 sec, it is updated by every 10 sec.

Output	Transmission (DC 0 - 20 mA)	Transmission (0 - 10 VDC \rightleftharpoons)	Alarm
Load resistance	≤ 600Ω	≥ 10 kΩ	-
Accuracy	± 0.3 F.S.		-
Resolution	8,000		-
Contact capacity	-		250 VAC~
Contact composition	-		5 A, 1a: 1 / 3 A, 1c: 2 / 5 A, 1a: 4 model
Power supply	100 - 240 VAC~ ± 10 % 50 / 60 Hz	24 VDC \rightleftharpoons ± 10 %	
Power consumption	≤ 8 VA	≤ 3 W	
Insulation resistance	≥ 100 MΩ (500 VDC \rightleftharpoons megger)		
Dielectric strength	Between input terminal and power terminal: 2,000 VAC~ 50 / 60 Hz for 1 min		
Vibration	0.75 mm double amplitude at frequency of 5 to 55 Hz (for 1 minute) in each X, Y, Z direction for 2 hours		
Noise immunity	± 2 kV the square wave noise (pulse width: 1 μs) by the noise simulator		
Memory retention	≈ 10 years (non-volatile semiconductor memory type)		
Ambient temperature	-10 to 50 °C, storage: -20 to 60 °C (no freezing or condensation)		
Ambient humidity	35 to 85 %RH, storage: 35 to 85 %RH (no freezing or condensation)		



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