

Features

XGF-TC4UD

- Optimum temperature control
- Universal input: TC, RTD, Voltage, Current
- Isolated input
- Output: Current/Transistor
- Parameter setting via dedicated software: TG-CON
- Variety of control types
 - PID control
 - Cascade control
 - On/ Off control
- Disconnection detection
- Various input functions: Bias, Filter, Square root
- Auto-tuning

XGF-TC4RT

- Input RTD : Pt100, JPt100, Pt1000
- Control Type : PID, On / Off Control



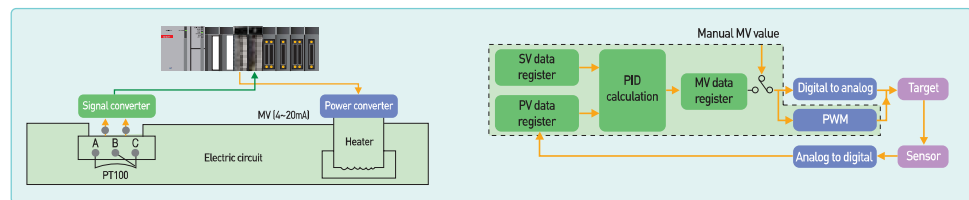
Specifications

Item	XGF-TC4UD		XGF-TC4RT	
No. of loop	4 loops		4 loops	
Input	Thermo couple	K	-200 ~ 1300 °C	-
			0 ~ 500 °C	
		J	-200 ~ 1200 °C	
			0 ~ 500 °C	
		E	-200 ~ 1000 °C	
		T	-200 ~ 400 °C	
		B	400 ~ 1800 °C	
		R	0 ~ 1700 °C	
		S	0 ~ 1700 °C	
		N	-200 ~ 1300 °C	
		C(W5Re/W26Re)	0 ~ 2300 °C	
		PL II	0 ~ 1300 °C	
	L	-200 ~ 900 °C		
	U	-200 ~ 600 °C		
	RTD	Pt100	-200 ~ 850 °C	-200 ~ 850 °C
		JPt100	-200 ~ 600 °C	-200 ~ 600 °C
		Pt1000	-200 ~ 800 °C	-200 ~ 800 °C
	Voltage	DC mV	0 ~ 10mV	-
			0 ~ 100mV	
		DC V	0 ~ 1V	
1 ~ 5V				
0 ~ 5V				
0 ~ 10V				
Current	DC mA	-5V ~ 5V		
		10V ~ 10V		
Current	DC mA	4 ~ 20mA	-	
		0 ~ 20mA		
Input channel	4 channels(Input type selection per channel)		-	

Specifications

Item	XGF-TC4UD		XGF-TC4RT		
Resolution	Resolution Refer to the user's manual (Resolution for each input type)				
Cold junction compensation	Compensation	Automatic compensation by RJC sensor			
	Precision	±0.2°C			
Digital output	Temperature display	0.1°C/1°C (Selection by software)			
	Linear display	0-1000			
	Scale display	Only for voltage/current input Range : -3,000-3,000 Setting range: 0-3000			
Conversion speed	200ms / module		400ms / 4loops		
Control type	PID, On/Off control				
Parameter	Set value (SV)	Selection per input type			
	Gain	0 : ON/OFF control, Real type			
	Integrated time	0 : No Differential control, Real type			
	Differential time	0 : No Integrated control, Real type			
Output	No. of output channel		8 channels (PWM or analog output)		
	PWM	Rated load voltage	DC 24V		
		Max. current point	0.1A points		
		On voltage drop	DC 0.3V or less		
		Off leakage current	0.1mA or less		
		Response time	ON⇒OFF	1ms or less	
			OFF⇒ON	1ms or less	
	Periodic	0.5-120.0sec (resolution: 0.5sec)			
	Time resolution	High value between 10ms or 0.5% of full scale			
	Analog output	Range	4-20mA		
Resistance		600Ω or less			
Resolution		±1.0%, 25°C			
Precision		8μA			
Insulation	Item	Insulation	Insulation withstand voltage	Insulation resistance	
	Channel - Channel	Trans	500V AC, 50/60Hz 1min, Leakage 10mA or less	500V DC, 10MΩ or more	
	Input terminal - PLC	Photocoupler			
	Current output - Current output	Non insulation			
	External power- Output	Non insulation			
Warm-up	20min or more				
Terminal	18 points terminal				
Power	5V, DC 24V (external)				
Current consumption	DC 5V : 900mA (Internal) DC 24V : 300mA (external)		DC 5V: 310mA DC 24V: 28mA		

Example : Constant temperature



XG-TCO

- The configuration tool for the temperature control module
- Easy parameter settings, data monitoring and trend-monitor support
- Auto-tuning operation command to speed up the system is set up and test operation



Data Monitor



Parameter setting(input parameter)



Trend monitor