

# PROCESS CONTROLLER

(Universal Input, RTD, Thermocouple & mA Input)

**Equinox**™



## FEATURES

- Universal Input T/C, Pt 100Ω, Process Signal mA, Vdc
- Accuracy: ± 0.5% of Full Scale
- 4 Digital Display: -1999~9999
- Heating / Cooling Control Output Available in Option
- High Stability & Low Cost

**ULTRA  
LOW COST**



**EQ-508-A21**



**EQ-508-G21**

## SPECIFICATIONS

Input Type	Code	Measuring Range	Input Type	Code	Measuring Range
Thermocouple (TC)	K	-50°C ~ +1350°C	Direct Voltage (U)	0-5V	Customized range within -1999 ~ +9999
	S	-50°C ~ +1750°C		1-5V	
	E	-50°C ~ +800°C			
	J	-50°C ~ +1000°C			
Resistance Thermometer Detector (RTD)	Cu50	-50°C ~ +150°C	Resistance (I)	0-20mA	
	Pt100	-200°C ~ +850°C		4-20mA	

- **Measuring Accuracy:** ± 0.5% F.S. ±1 digit
- **Scaling:** -1999~9999
- **Sampling Time:** < 0.3 Sec.

### Displayfunctions

- **LED:** Dual display for PV & SV
- **Decimal Point:** Settable any digit by front key (linear input)
- **Unit:** °C and °F changeable
- **Compensation:** For PV and SV

### Controlmode

- **ON/OFF Control** When P sets to be 0(P=0), Hysteresis (Hy): 0~1000 counts
- **PID Control** Auto tuning  
Proportional Band (P): 0.0~200.0% of span  
Reset time (Integral): 0~999 sec.  
Rate time (Deviation): 0~999 sec.  
Direct/Reverse programmable
- **Control Output:** Relay SPDT x 1, 5A/240Vac

### Operating

- **Operation Key:** Four key for Function setting

### Alarm

- **Relay Contact:** Standard: Alarm 1: SPDT 5A/240V  
Option: Alarm 2: SPDT 3A/240V
- **Alarm Functions:** Wait, Hysteresis, Alarm Time, Alarm Delay, Alarm hold,

### Power

- **Power Supply:** 24VDC ±10%

### Enviromental

- **Operating Temperature:** 0 to 55 °C
- **Operating Humidity:** 20 to 90%RH(Non-condense)
- **Storage Temperature:** -10 to 70 °C

### Mechanical

- **Case material:** ABS
- **Mounting:** Panel flush mounting
- **Connection:** Screw terminal

## ORDERING CODE

EQ-508-□-21-□□□

- Input Signal Types 0:K 1:S 2:E 3:J 4:Cu50 5:Pt100  
6:0-5V 7:1-5V 8:0-20mA 9:4-20mA
- Alarm Output 0: no Alarm Output  
Modes 1: Absolute Value Higher Limit Alarm  
2: Absolute Value Higher Limit Alarm Holding  
3: Deviation Higher Limit Alarm  
4: Deviation Higher Limit Alarm Holding
- Control R: PID Control Relay Output  
Output Modes S: PID Control Solid-state Relay O/P (SSR)
- Dimension Code G:48 × 48mm  
D:72 × 72mm  
A:96 × 96mm
- Hole Cutout Dimension(mm) 45 × 45 mm  
68 × 68 mm  
92 × 92 mm



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