

**FENWAL**

TE 350 A

FCJ

# HG42

Multi Indicator

# S E R I E S

# HG42

# S E R I E S

**Pb-Free  
Design**



# Pb-Free Design

# Multi Indicator

## Features

1

Available in Pb-Free Design

Correspond to JEITA Road Map 2002 Phase II

2

Free Input and Three Alarm can be loaded

3

Fullness of Communication Function and Transmission Output

**PV Display**  
Display Current Value or Setting Items

**S1-LED**  
Alarm 1 Operation LED

**S2-LED**  
Alarm 2 Operation LED

**S3-LED**  
Alarm 3 Operation LED



Up Key

Right Shift Key

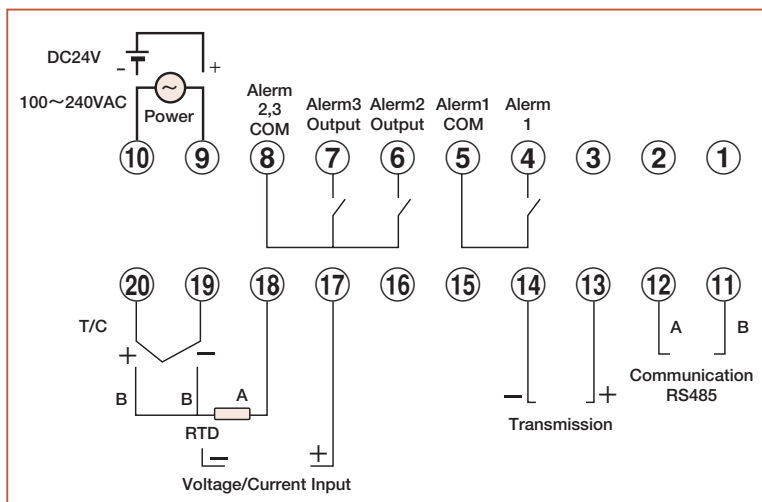
Set Key

Down Key

Left Shift Key

**Alarm Value Display**  
Display Alarm Value or Setting Items

## External Wiring



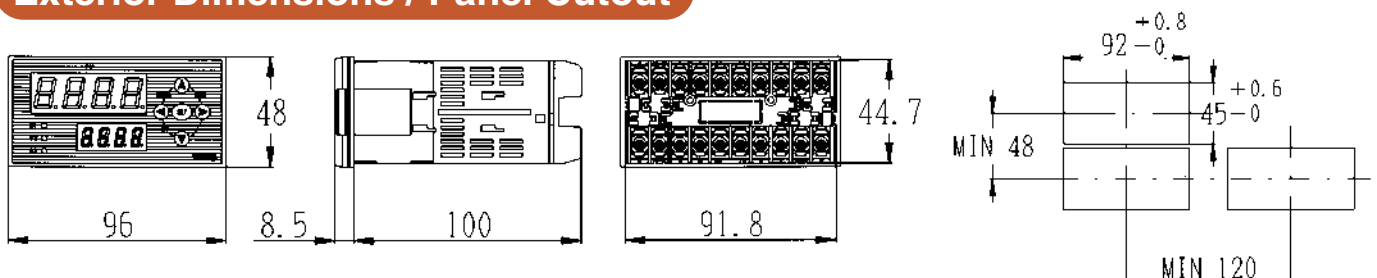
HG42  
SERIE

# HG42 SERIES

## Main Specification

Accuracy Under Surrounding Temperature 25±5°C	Thermocouple: K,J,E,T,R,S (Set Value±/0.3 or ±/2°C, whichever is greater) ±/1 Digit Thermocouple: B (Set Value±/0.3 or ±/3°C, whichever is greater) ±/1 Digit (However B input 0~500°C is outside Guranteed Accuracy range) RTD: (Set Value±/0.3 or ±/0.8°C, whichever is greater) ±/1 Digit Voltage/Current : (±/0.3% of Scaling Width or ±/1 Digit, whichever is greater) ±/1 Digit
Input	Thermocouple: K,J,E,T,R,S(JIS,IEC,DIN Standard) B RTD: Pt100Ω (JIS,IEC,DIN Standard) 、JPt100Ω (Old JIS) Linear Input Voltage: DC1~5V Linear Input Current: DC4~20mA
Output (Option)	Max.3 Alarms (1a) 32 Types of temperature alarms, choose from Sensor/Heater Abnormalities, includes Heater (Current Display Function) * AR33 Max.2 Alarms Relay Connection: (2A/250VAC,2A/30VDC, COSφ=1 1c point)
Transmission (Option)	Measured Value Output as DC4~20mA on External Output (Load Resistance 400ΩMax 11bit Resolution)
Temperature Range	K: -100~1200°C (-99.9~199.9°C)      B: 500~1800°C E: -200~1000°C      S: 100~1600°C J: -100~800°C      C: -200~400°C (-199.9~400.0°C) T: -150~300°C      G: -200~600°C (-199.9~600.0°C) R: 100~1600°C      IRt/c: 0~400°C      Ni: -50~300°C
Communication Function (Option)	Communication Method : R S 485      Communication Speed : 19200bps Connection Method : Two Line Half Duplex Communication      Synchronous Communication : Asynchronous Communication Transmission Code : ASC II
Power Supply	AC100~240V 50/60Hz Free Power (Special Order:DC24V±10%)
Operating Temperature	-10~60°C (Assuming no condensation)
Storage Temperature	-20~70°C (Assuming no condensation)
Operating Humidity	RH 40~85 % (Assuming no condensation)
Power Consumption	12VA Max
Dielectric Resistance	100MΩMis DC500V, Between Output relay terminals and power supply terminals
High Potencial Rating	AC2300V for 1 Min, Between Output relay terminals and power supply terminals
Earthquake- proof	10~55Hz, All Amplitude 0.3mm Each X,Y,Z Direction for 1 hour
Shock-proof	18.6 m/s² (20G) Each X,Y,Z Direction for 5 times
Weight	350g Max ( Without Option)
Standard	Safety Standard:IEC61010-1Contamination Level 2 Installation Category II EMC:EMI:EN50081-2/EN55011 Class A,Group 1 EMS:EN50082-2

## Exterior Dimensions / Panel Cutout





Multi Indicator

**HG42**  
S E R I E S

■ Model Number Identification

**HG 42 R - K Z - N N - 001**

- Series Identifier
- DIN Size Identifier  
42 : W96×H48×D100mm
- Remote Control  
R : Communications Available(Remote)  
L : Communications not Available(Local)
- センサー入力  
K : Thermocouple K (Chromel-Alumel)  
J : Thermalcouple J (Iron-Constntan)  
E : Thermocouple E (Chromel-Constantan)  
T : ThermocoupleT (Copper-Constantan)  
R : Thermocouple R (Platinum13% Rhodium-Platinum)  
S : Thermocouple S (Platinum10% Rhodium-Platinum)  
B : Thermocouple B (Platinum30% Rhodium6% Rhodium)  
C : PT100ΩOLD-JIS RED  
G : P T 100ΩNew-JIS RED(DIN)  
A : Current Input 4~20mA  
V : Voltage Input 1~5V  
X : Non-contact Temperature Sensor I R-t/c (Special Order)  
N : Nickel RTD (Special Order)
- Alarm Count  
N : None  
1 : One  
2 : Two  
3 : Three
- Input Voltage  
Z : AC100~240V  
L : DC24V (Special Order)
- Option  
N : None  
T : Transmission Output 4~20mA
- Preset Number  
001 : STD

■ Temperature Alarm Table

Code Number		Alarm Mode	Initial Reset	Relay Operation
Without Latch	With Latch			
00	00	No Alarm	-	- -
09	10	Upper/Lower Band, independent type	Without	
11	12	Upper/Lower Band, independent type	With	
13	14	Upper/Lower Band, independent type	Without	
15	16	Upper/Lower Band, independent type	With	
25	26	One point Alarm, independent type	Without	
27	28	One point Alarm, independent type	With	
29	30	One point Alarm, independent type	Without	
31	32	One point Alarm, independent type	With	

■ Abnormal Alarm

Code	0	1	
Sensor Disconnection	×	○	○: With Alarm (Without latch) ×: Without Alarm



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