

Digital Temperature Control PID Control Function

| ปองลูา |  |
| :---: | :---: |
| ชนิดของอินพุต | Thermocouple : K, J, R, T, N, S, E, PT100, 0-100 mV |
|  | Voltage : 0-10 VDC |
|  | Current : 4-20 mA |
|  | Process Value (PV) : LED สีเขียว 4 หลัก (7 Segment) |
| การแสดงผล | Setting Value (SV) : LED สีแดง 4 หลัก (7 Segment) |
| ฟังก์ชั่นการควบคุม | LED สีแดง : แสดงค่าการทำงานเอาต์พุตและอะลาม |
|  | PID, Heating / Cooling Cycle Time : $1-120 \mathrm{sec}$ |
|  | ON/OFF Hyteresis :0-100\% ของสเกลสูงสุด |
| เอาต์พุต | Relay 5A, 250V, SPDT |
|  | SSR Drive 0-12 VDC (ความต้านทานโหลดต่ำสุด 600 |
|  | Voltage 0-10 VDC (ความต้านทานโหลดต่ำสุด $1 \mathrm{k} \Omega$ ) |
| ความไวในการทำงาน | Current 4-20 mA. (ความต้านทานโหลดสูงสุด 500 ${ }^{\text {a }}$ ) |
|  | 0.5 sec |
| ความเที่ยงตรง | $0.25 \%$ ของสเกลสูงสุด ที่ $25^{\circ} \mathrm{C}$ อุณหภูมิห้อง |
| หน่วยความจำ | EEPROM |
| เอาต์พุตของ Alarm Relay | $3 \mathrm{~A}, 250 \mathrm{~V}$, SPDT |
| แรงดันไฟเลี้ยง | 100-250 VAC / 12-30 VDC |

## การติดตั้ง


ขนาดและรูปร่าง (mm.)

| Type | A | B | C | D | a | b |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| REM48 | 48 | 48 | 10 | 80 | 45 | 45 |
| REM72 | 72 | 72 | 10 | 80 | 68 | 68 |
| REM94 | 48 | 96 | 10 | 80 | 45 | 92 |
| REM95 | 96 | 48 | 10 | 80 | 92 | 45 |
| REM96 | 96 | 96 | 10 | 80 | 92 | 92 |



## วลี่าารสี่งชี่อ






OPERATION FLOW AND SETTING MENU

| Power ON |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| $\xrightarrow[\text { In }]{\text { PV }}$ |  |  |  |  |
| Operation mode display |  |  | Press $\mp$ key more than 2 seco <br> กดปุ่ม (F)ค้างประมาณ 2 วินทีี |  |
|  |  | Process and set value display. | g | For edit SV and parameter value |
| Table1. Select input sensors and setting range. |  |  |  |  |
| Symbol | Input Type |  | Setting Range / Display Range |  |
|  |  |  | Non-decimal point | Decimal point |
| 0 | Thermocouple Type K |  | $\begin{aligned} & -200 \sim 1372^{\circ} \mathrm{C} \\ & -328-2501^{\circ} \mathrm{F} \end{aligned}$ | $\begin{aligned} & -199.9-999.9^{\circ} \mathrm{C} \\ & -199.9 \sim 99.9^{\circ} \end{aligned}$ |
| 1 | Thermocouple Type J |  | $\begin{aligned} & -200 \sim 1200^{\circ} \mathrm{C} \\ & -328-2192{ }^{\circ} \mathrm{F} \end{aligned}$ | $\begin{aligned} & -199.9 \sim 999.9^{\circ} \mathrm{C} \\ & -199.9 \sim 999.9^{\circ} \mathrm{F} \end{aligned}$ |
| 2 | Thermocouple Type R |  | $\begin{aligned} & -50 \sim 1768^{\circ} \mathrm{C} \\ & -58-3214^{\circ} \mathrm{F} \end{aligned}$ | - |
| 3 | Thermocouple Type T |  | $\begin{aligned} & -200 \sim 400^{\circ} \mathrm{C} \\ & -328 \sim 752^{\circ} \mathrm{F} \end{aligned}$ | $\begin{aligned} & -199.9 \sim 400.0^{\circ} \mathrm{C} \\ & -199.9 \sim 752.0^{\circ} \mathrm{F} \end{aligned}$ |
| 4 | Thermocouple Type N |  | $\begin{aligned} & -200 \sim 1300^{\circ} \mathrm{C} \\ & -328 \sim 2372{ }^{\circ} \mathrm{F} \end{aligned}$ | $\begin{aligned} & -199.9-999.9^{\circ} \mathrm{C} \\ & -199.9 \sim 99.9{ }^{\circ} \mathrm{F} \end{aligned}$ |
| 5 | Thermocouple Type S |  | $\begin{aligned} & -50 \sim 1768^{\circ} \mathrm{C} \\ & -58 \sim 3214^{\circ} \mathrm{F} \end{aligned}$ |  |
| 6 | Thermocouple Type E |  | $\begin{aligned} & -200 \sim 1000^{\circ} \mathrm{C} \\ & -328 \sim 1832^{\circ} \mathrm{F} \end{aligned}$ | $\begin{aligned} & -199.9-999.9^{\circ} \mathrm{C} \\ & -199.9 \sim 999.0^{\circ} \mathrm{F} \end{aligned}$ |
| 7 | DC $0-100 \mathrm{mV}$ |  | -1999-9999 ${ }^{\circ} \mathrm{C} /{ }^{\circ} \mathrm{F}$ | $\begin{aligned} & -19.99 \sim 99.99^{\circ} \mathrm{C} / \mathrm{F} \\ & -199.9 \sim 99.9^{\circ} \mathrm{C} / \mathrm{F} \\ & -1.999 \sim 9.999^{\circ} \mathrm{C} / \mathrm{F} \end{aligned}$ |
| 8 | Pt100 |  | $\begin{aligned} & -200 \sim 850^{\circ} \mathrm{C} \\ & -628 \sim 1652^{\circ} \mathrm{F} \end{aligned}$ | $\begin{aligned} & -199.9 \sim 850.0^{\circ} \mathrm{C} \\ & -199.9 \sim 999.9{ }^{\circ} \mathrm{F} \end{aligned}$ |
| 11 | DC 4-20mA |  | -1999~9999 ${ }^{\circ} \mathrm{C} /{ }^{\circ} \mathrm{F}$ | $\begin{aligned} & -199.9 \sim 999.9^{\circ} \mathrm{C} /{ }^{\circ} \mathrm{F} \\ & -19.99 \sim 99.99^{\circ} \mathrm{C} /{ }^{\circ} \mathrm{F} \\ & -1.999 \sim 9.990^{\circ} \mathrm{C} /{ }^{\circ} \mathrm{F} \end{aligned}$ |
| 12 | DC 0-10V |  | -1999~9999 ${ }^{\circ} \mathrm{C} /{ }^{\circ} \mathrm{F}$ | $\begin{aligned} & -199.9 \sim 999.9^{\circ} \mathrm{C} /{ }^{\circ} \mathrm{F} \\ & -19.99 \sim 99.99^{\circ} \mathrm{C} / \mathrm{F} \\ & -1.999 \sim 9.999^{\circ} \mathrm{C} /{ }^{\circ} \mathrm{F} \end{aligned}$ |

## ALARM OUTPUT : Process value (PV) to be used as Alarm Output.

PV abnormal : Input indicates "Over" or "Under" by the cut-off of wire and short circuit, alarm output turn on.
Stand-by sequence : After starting operation of step, alarm output does not turn on unless the process value reach the value of OFF position of alarm output.
Alarm output hold : Alarm output holds "ON" unless aftering setting of additional function or resetting the power.


Absolute value (Ex. Alarm Output 1)

7) Low Imint

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