

# 6-6

## 디지털 온도 조절기 GTC Series



GTC 99



GTC 77



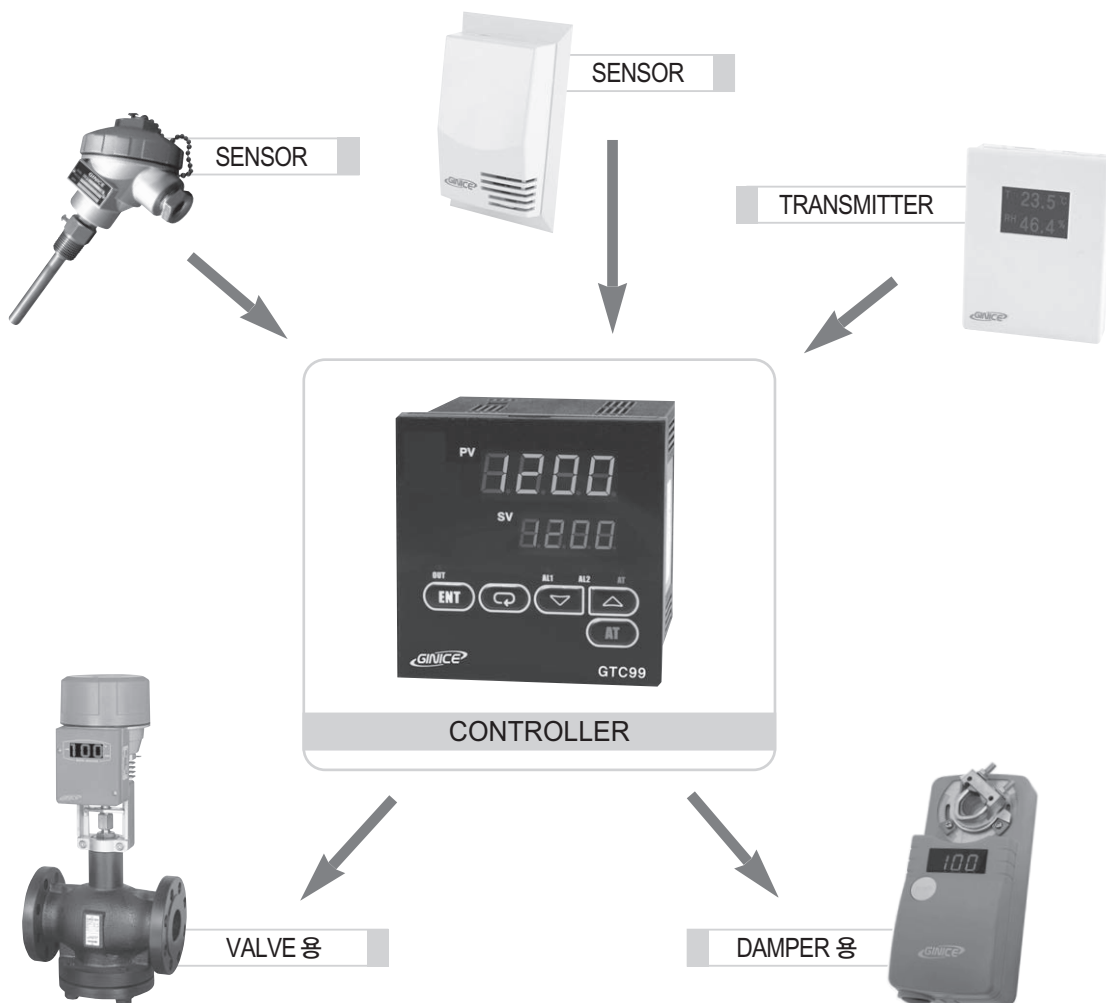
GTC 94



GTC 49



GTC 44



## 제품 | Products



GTC 99



GTC 77



GTC 94



GTC 49



GTC 44

## 사양 | Specification

|                                     |                                                                                                                                |                                                     |                                                |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|------------------------------------------------|
| Accuracy                            | Thermocouple                                                                                                                   | $\pm 0.3\% + 1 \text{ digit or } 3^{\circ}\text{C}$ | Except R.S.B.C<br>Thermocouples under<br>450°C |
|                                     | RTD, DC, Volt                                                                                                                  | $\pm 0.2\% + 1 \text{ digit}$                       |                                                |
| Input Signal                        | K, J, E, N, C, T, R, S, B, JPt 100Ω, Pt 100Ω, 1~5Vdc, 4~20mA (250Ω 저항연결)                                                       |                                                     | Input Multi                                    |
| Control Output                      | Relay Contact (250V 3A, R), 4~20mA (600Ω max),<br>SSR (20Vdc 20mA), 0~10Vdc Switchable                                         |                                                     | Output Selection                               |
| Control                             | PID, P, ON - OFF                                                                                                               |                                                     | Each Heat / Cool Mode                          |
| Control Period                      | 1 ~ 60 sec.                                                                                                                    |                                                     |                                                |
| Scan Time                           | 0.16 sec.                                                                                                                      |                                                     |                                                |
| Power                               | 100~240V ac, 50/60Hz, 0.1A max.                                                                                                |                                                     |                                                |
| Operating Condition                 | Temperature 0~50°C<br>Humidity 35~85% RH                                                                                       |                                                     | No dew - condensation                          |
| Dimension /<br>Panel Cutout<br>(mm) | GTC 99 : 91(W) X 91(H)<br>GTC 77 : 68(W) X 68(H)<br>GTC 94 : 91(W) X 45(H)<br>GTC 49 : 45(W) X 91(H)<br>GTC 44 : 45(W) X 45(H) |                                                     |                                                |

## 주문 안내 | Ordering Information

|                          |        |                              |                         |                    |
|--------------------------|--------|------------------------------|-------------------------|--------------------|
| Model                    | GTC 99 | 96 (W) X 96 (H) X 100 (D) mm |                         |                    |
|                          | GTC 77 | 72 (W) X 72 (H) X 100 (D) mm |                         |                    |
|                          | GTC 94 | 96 (W) X 48 (H) X 100 (D) mm |                         |                    |
|                          | GTC 49 | 48 (W) X 96 (H) X 100 (D) mm |                         |                    |
|                          | GTC 44 | 48 (W) X 48 (H) X 100 (D) mm |                         |                    |
| Control Output<br>(제어출력) | -1     | Output Signal (4~20mA) 전류    |                         |                    |
|                          | -2     | Output Signal (0~10Vdc) 전압   |                         |                    |
|                          | -3     | SSR Output (Vdc Pulse)       |                         |                    |
|                          | -4     | Relay Output (ON-OFF)        |                         |                    |
| Alarm Output<br>(경보출력)   |        | 포함                           | ALM. (1Point) - 250V/3A | GTC 44 Only        |
|                          |        | 포함                           | ALM. (2Point) - 250V/3A | GTC 99, 77, 49, 94 |
| Option<br>(선택사항)         |        | -R                           | (Retransmission) 4~20mA | - GTC 선택 사양        |
|                          |        | -C                           | RS 485 communication    | - GTC 44 선택 불가     |

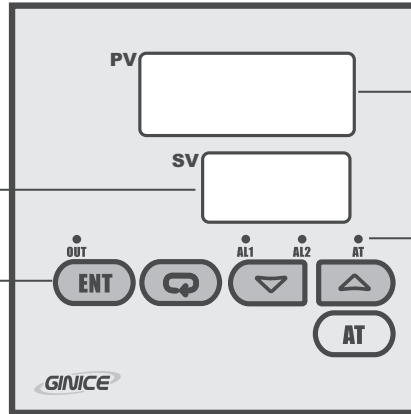
《 각부의 명칭과 기능 | The Name And Function Of Each Part | 》

설정값 지시창

설정값 지시

조작Key

Data 증가, 감소  
변수 선택  
Auto-Tuning 및 Data 확정



현재 값 지시창

측정값 지시, 설정 변수 지시

동작 표시 램프

제어출력, 경보, A/T 상태표시

(GTC 99모델 기준임)

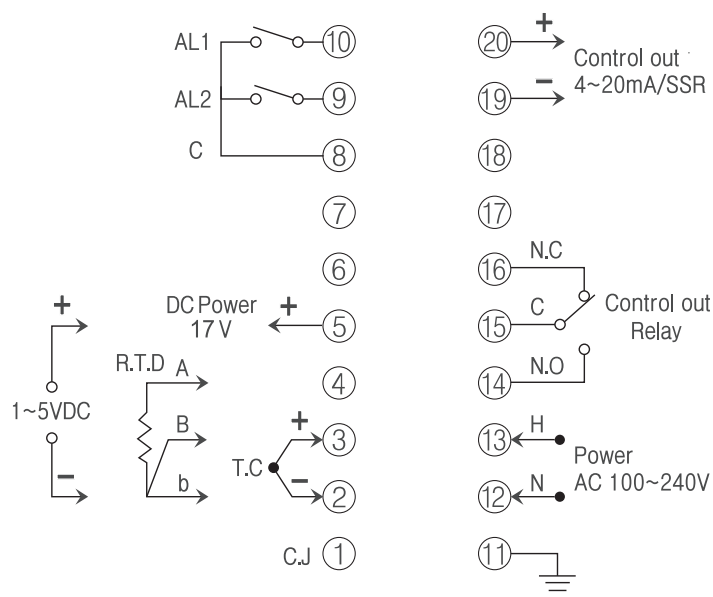
|   | Key | 기능                                       |
|---|-----|------------------------------------------|
| ① |     | 1. 변경된 파라메타 값을 확정<br>2. Timer 기능의 ON/OFF |
| ② |     | 파라메타 선택(MODE)                            |
| ③ |     | 설정값 변경키, 각 설정모드 데이터 선택                   |
| ④ |     | Auto-Tuning 실행                           |

※ GTC 44, GTC 94 모델은 키를 사용하지 않고 변수그룹에서 Auto-Tuning을 실행한다.

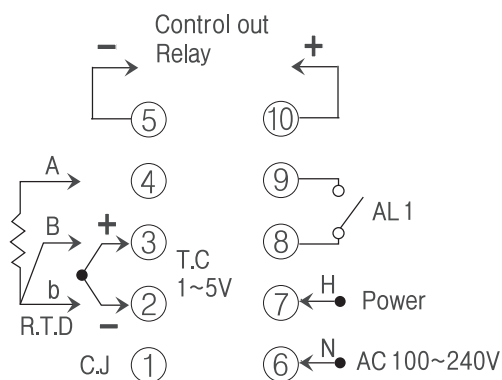
결선 방법 | Wiring Diagram |

▶ GTC 99, GTC 49, GTC 94

- Ret. Out 4~20mA
- RS485 (Option)

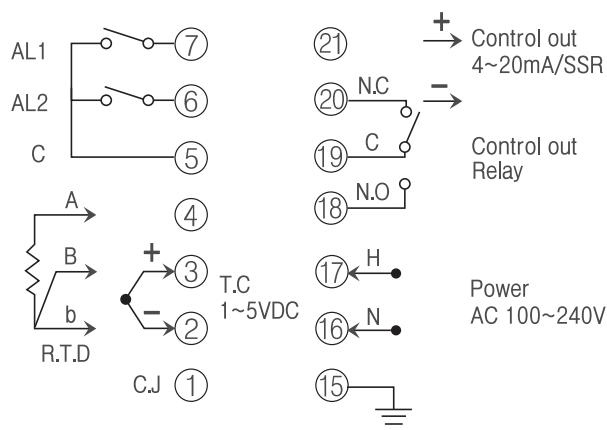


▶ GTC 44



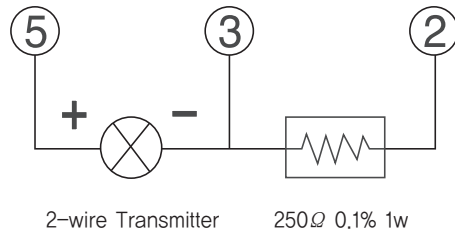
▶ GTC 77

- Ret. Out 4~20mA
- SV2
- RS485 (Option)



## 《 센서용 전원 | The Power Supply For Sensor |

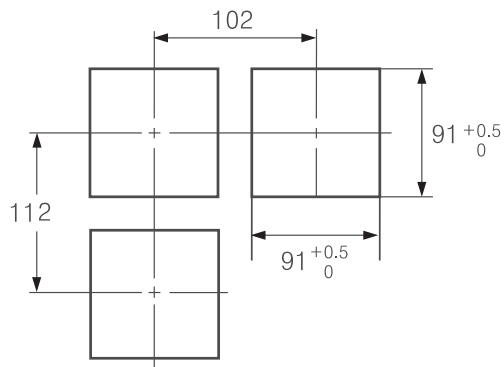
외부에 별도로 DC Power 없이도 2선식 전송기(검출기)와 연결가능 4~20mA 출력 2선식 전송기와 연결하는 경우 다음 그림을 참조한다.  
(GTC 99, 49, 94)



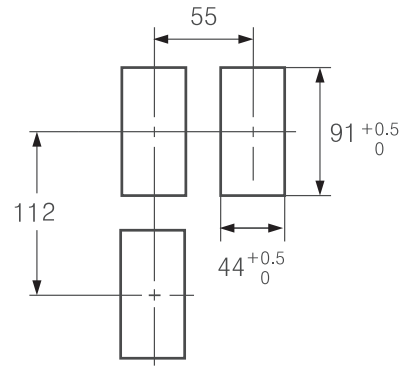
※ 주의

2선식전송기 전원공급기능(DC17V)은  
GTC 77, GTC44 모델에는 기능이 없다.

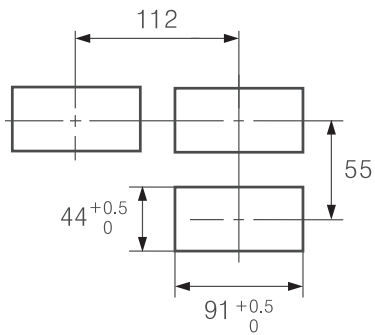
## 《 판넬 가공 치수 | Panel Cut-out Dimension |



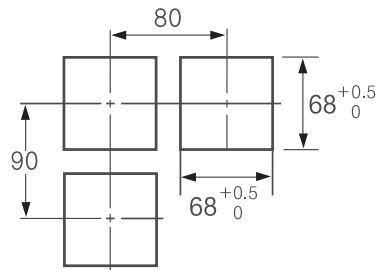
GTC 99



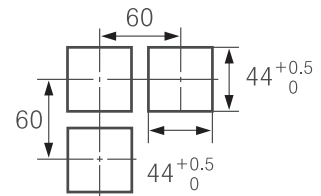
GTC 49



GTC 94



GTC 77



GTC 44