

## Specification Difference Between TTM-204-Z65/Z74 and TTM-200 Series

This product is a TTM-200 series temperature controller with “Thermocouple / RTD Input (ending with Z65)” or “Voltage / Current Input (ending with Z74)”. The sampling cycle of both Z65 and Z74 can be set to 10ms, 20ms, 50ms, 100ms, 200ms and 500ms.

Also, 57600, 76800, 115200bps were added to the communication (RS485) speed.

Since these two models are slightly different with that of the standard TTM-200 series, please refer to this document for the specific differences.

Please refer to the instruction manual for the TTM-200 series with regards to other specifications.

### ●MODEL

| Front Dimensions |         |
|------------------|---------|
| 4                | 48 x 48 |

| Option |              |
|--------|--------------|
| S      | CT1 input    |
| T      | CT2 input    |
| U      | Event1 Input |
| V      | Event2 Input |

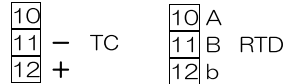
| Output 1 • 2 |                   |
|--------------|-------------------|
| I            | Current 4-20mA DC |

| Output 3 • 4 |                |
|--------------|----------------|
| A            | Open collector |
| R            | Relay contact  |

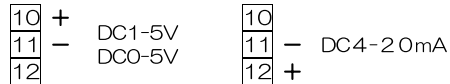
Combination of options (limited to as indicated below)  
204 : ST, SV, UV

### ●WIRING

TTM-204-Z65



TTM-204-Z74



### ●NO. OF PARAMETERS AND THEIR DESCRIPTIONS

(Difference from the TTM-200 brief operation manual)

Table 2 Setting of input type: SET1, Item 1

| No. | Type of sensor | Measuring/Setting Range  |
|-----|----------------|--------------------------|
| 0   | K thermocouple | -200~1372.0              |
| 1   | J thermocouple | -200~1200.0              |
| 2   | T thermocouple | -200~400.0               |
| 3   | E thermocouple | -200~1000.0              |
| 4   | R thermocouple | -50~1768                 |
| 5   | S thermocouple | -50~1768                 |
| 6   | B thermocouple | 0~1800                   |
| 7   | N thermocouple | -200.0~1300.0            |
| 8   | U thermocouple | -200.0~400.0             |
| 9   | L thermocouple | -200.0~900.0             |
| 10  | WRe5-26        | 0~2300 (When °F:32~3276) |
| 11  | Pr40-20        | 0~1880 (When °F:32~3276) |
| 12  | PLII           | 0.0~1390.0               |
| 13  | Pt100          | -200.0~850.0             |
| 14  | JPt100         | -200.0~510.0             |
| 17  | 0-5VDC         | -19999~29999             |
| 18  | 1-5VDC         | -19999~29999             |
| 20  | 4-20mADC       | -19999~29999             |

\*Z65 can select from 0 to 14. Z74 can select 17, 18 and 20.

Table 24 Setting of communication speed: SET 17, Item3

| Numerical No. | Description |
|---------------|-------------|
| 2. 4          | 2400bps     |
| 4. 8          | 4800bps     |
| 9. 6          | 9600bps     |
| 19. 2         | 19200bps    |
| 38. 4         | 38400bps    |
| 57. 6         | 57600bps    |
| 76. 8         | 76800bps    |
| 115. 2        | 115200bps   |

SET4 Item 18 • 19

|                                  | When iddP = 0.00 is set | When iddP = 0.0 is set |
|----------------------------------|-------------------------|------------------------|
| 19. Setting of integral time     | 0.00~327.67             | 0.0~3276.7             |
| 20. Setting of differential time | 0.00~327.67             | 0.0~3276.7             |

SET4 Item 27

|  | When MSS=0 is set (min : sec) | When MSS=1 is set (sec) |
|--|-------------------------------|-------------------------|
| 27. Setting of primary control soft start time | 000:00~499:59                 | 0000.0~2999.9           |

SET18 Item 2 • 3 • 4 • 5 • 7 • 8 • 9 • 10

| No. | Color      | No. | Color             |
|-----|------------|-----|-------------------|
| 0   | Green      | 5   | Purple            |
| 1   | Red        | 6   | White             |
| 2   | Orange     | 7   | Custom            |
| 3   | Blue       | 8   | Auto (Item2 only) |
| 4   | Light Blue |     |                   |

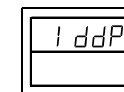
### ●ADDITIONAL PARAMETERS FOR EACH SETTING MODE

SET1 Input setting mode

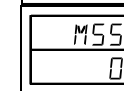


14. Sampling cycle  
(10ms/20ms/50ms/  
100ms/200ms/500ms)

SET4 Control setting mode

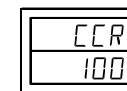


8. Setting of decimal point position for  
integration and differentiation  
(0.0/0.00)



28. Setting of primary control  
soft start time  
(0 : min/sec 1 : sec)

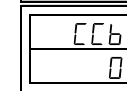
SET18 Initial setting mode



11. Custom color red  
Contrast  
0~100 (Light•••Dark)



12. Custom color green  
Contrast  
0~100 (Light•••Dark)



13. Custom color blue  
Contrast  
0~100 (Light•••Dark)