

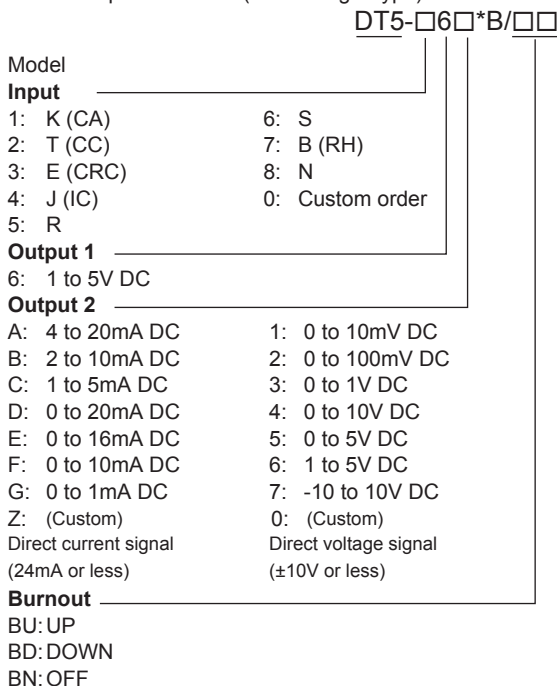
IM JD100-01E-S01

Thank you for purchasing JUXTA D Series, Signal Conditioners.
This supplement is to update the contents of the JUXTA D Series User's Manual (IM JD100-01E).
Please make the following alterations to the original manual.

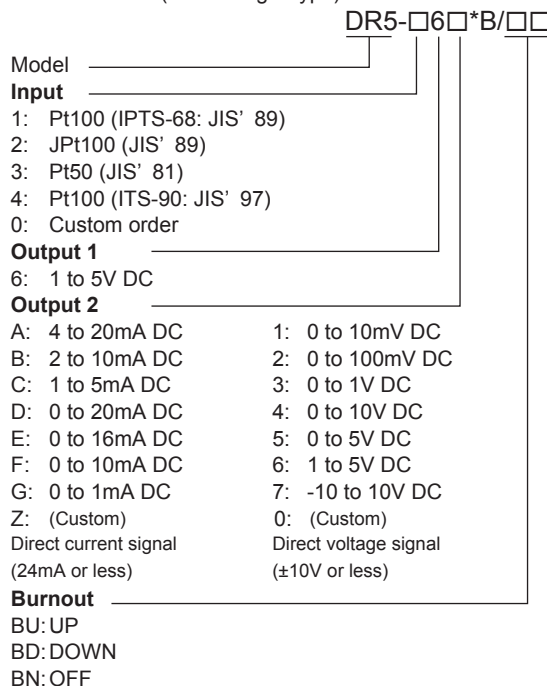
Page 3-1 Section 3.3.1 "TYPE AND SPECIFICATION CODE"

DT5 and DR5 have been replaced with the following:

Thermocouple Converter (Free Range Type)



RTD Converter (Free Range Type)

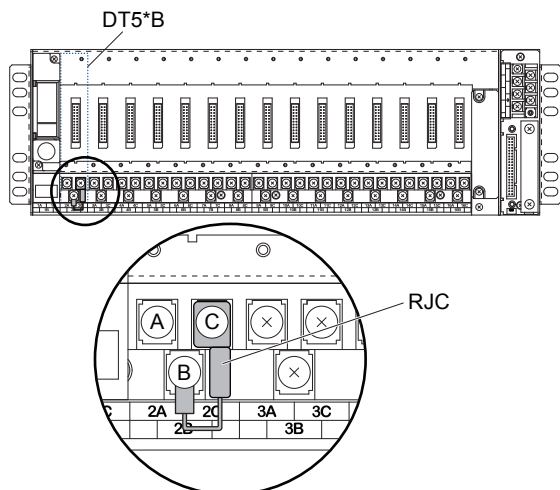


Page 6-6 Section 6.3 "WIRING AND PIPING OF FIELD SIDE I/O TERMINAL • SIGNAL CONDITIONER'S FRONT TERMINAL AND WIRING OF SYSTEM SIDE CABLE"

Add the following contents: 6.3.1, 6.3.2, 6.3.3

6.3.1 Connecting the RJC sensor (DT5 Thermocouple Converter)

Connect the RJC side to the input terminal (C) of the nest and the other side to the input terminal (B) as shown below.



NOTE

- Connect the RJC sensor of the converter together with the input signal line so that the pressure terminal of the input signal line overlaps the RJC sensor.
- Handle the RJC sensor lead wire with care to prevent disconnection.
- The RJC sensor of DT5*B has a different structure from that of the former style DT5*A.

6.3.2 Note for the DF0 (Electrical to Pneumatic Converter) mounting as a spare

Do not remove the blue sealing plug of the air-pressure pipe for dust prevention when DF0 is mounted to the nest (DCP/CMP) as a spare without input/output signal.

Also, do not apply input signal while the plug is on the pipe hole. This unloaded condition might cause hunting to occur.

Page 6-6 Section 6.3

Replace Table 6.2 with the following:

Table 6.2 Wiring & piping of field side I/O terminal of DCP (DCE) nest • signal conditioner's front terminal



WARNING

Be sure to turn OFF the power supply before wiring to avoid the risk of electric shock. Use a tester or similar device to ensure that no power is being supplied to a cable to be connected.

Table 6.2 Wiring and piping of field side I/O terminal of DCP (DCE) nest • signal conditioner's front terminal

| Signal Conditioner | | Field side I/O Terminal Symbol | | | Converter-front Terminal Symbol | | | | |
|------------------------------|-----------------------------------|---|--------------|---|---------------------------------|-----|--------------|-----|-----|
| | | A | B | C | 1 | 2 | 3 | 4 | AIR |
| DM1 | | + | | - | | | + | - | |
| | | | | | | | For Output 2 | | |
| DT5 | | | | | | | For Output 2 | | |
| DR5 | | | | | | | For Output 2 | | |
| DRU | | | | | | | For Output 2 | | |
| DS1 | | | | | | | For Output 2 | | |
| DP1 | 2-wire type (Voltage contact) | + | | - | | | | | |
| DP3 | Internal power supply 2-wire type | Signal | Power supply | | | | For Output 2 | | |
| | Internal power supply 3-wire type | + | Power supply | - | | | | | |
| DH1, DH2, DH5 | | + | | - | | | For Output 2 | | |
| DA1, DA2, DA5 | | Available for the combination with BARD | | | | | For Output 2 | | |
| DH0, DA0, DQ0 | | + | | - | | | | | |
| DX1 | | + | | - | | | | | |
| DG1 | | | | | | | For Output 2 | | |
| DB1 | | | | | | | For Output 2 | | |
| DD1 | | | | | | | For Output 2 | | |
| DF1 | | | | | + | - | | | |
| | | | | | For Output 2 | | | | |
| DF0 (Available for DCP only) | | | | | + | - | | | |
| | | | | | For output signal check | | | | |
| DSK | | + | | - | NO/NC | COM | NO/NC | COM | |
| | | | | | Output 1 | | Output 2 | | |

• I/O screw terminal: M4 x 0.7, I/O signal piping: Rc1/4 female screw, Supply side piping: Rc3/8 female screw

• In case the output 2 signal is DC, it can be output from either "CN2" or from "Converter-front terminal".



CAUTION

Connect the input signal line of DG1, DB1, DD1 to converter-front terminals 1 and 2. An incorrect connection may cause overheating or burning of the nest (DCP/DCE).

Page 6-7 Section 6.3

Replace Table 6.3 with the following:

Table 6.3 Wiring & piping of field side I/O terminal of DMP (DME) nest • signal conditioner's front terminal



WARNING

Be sure to turn OFF the power supply before wiring to avoid the risk of an electric shock. Use a tester or similar device to ensure that no power is being supplied to a cable to be connected.

Table 6.3 Wiring and piping of field side I/O terminal of DMP (DME) nest • signal conditioner's front terminal

| Signal Conditioner | Field side I/O Terminal Symbol | | | Converter-front Terminal Symbol | | | | |
|------------------------------|--|--------|--------------|---------------------------------|-----|--------------|-----|-----|
| | A | B | C | 1 | 2 | 3 | 4 | AIR |
| DM1 | + | | - | | | + | - | |
| DT5 | | | | | | For Output 2 | | |
| DR5 | | | | | | + | - | |
| | Wiring resistance of A and B should be equal | | | | | For Output 2 | | |
| DRU | | | | | | + | - | |
| | | | | | | For Output 2 | | |
| DS1 | | | | | | + | - | |
| | Wiring resistance of A and C should be equal | | | | | For Output 2 | | |
| DP1 | 2-wire type (Voltage contact) | + | - | | | | | |
| DP3 | Internal power supply 2-wire type | Signal | Power supply | | | + | - | |
| | Internal power supply 3-wire type | + | Power supply | | | For Output 2 | | |
| DH1, DH2, DH5 | + | | - | | | + | - | |
| | | | | | | For Output 2 | | |
| DA1, DA2, DA5 | Available for the combination with BARD | | | | | + | - | |
| | For 2-wire transmitter in case power supply is not necessary | | | | | For Output 2 | | |
| DH0, DA0, DQ0 | + | | - | | | | | |
| DX1 | + | | - | | | | | |
| DG1 | | | | | | + | - | |
| | | | | | | For Output 2 | | |
| DB1 | | | | | | + | - | |
| | | | | | | For Output 2 | | |
| DD1 | | | | | | + | - | |
| | | | | | | For Output 2 | | |
| DF1 | | | | + | - | | | |
| | | | | For the Output 2 | | | | |
| DF0 (Available for DMP only) | | | | + | - | | | |
| | | | | For output signal check | | | | |
| DSK | + | | - | NO/NC | COM | NO/NC | COM | |
| | | | | For output signal check | | Output 2 | | |
| Signal Conditioner | Field side I/O Terminal Symbol | | | Converter-front Terminal Symbol | | | | |
| | A | B | C | 1 | 2 | 3 | 4 | AIR |
| DC0 | + | | - | | | | | |
| DX1 (*1) | + | | - | | | | | |

- I/O screw terminal: M4 x 0.7, I/O screw piping: Rc1/4 female screw, Supply side piping: Rc3/8 female screw
- In case the output 2 signal is DC, it can be output from either "CN2" or from "Converter-front terminal"
- (*1) 250Ω installed type cannot be used as output card (even-numbered slot)

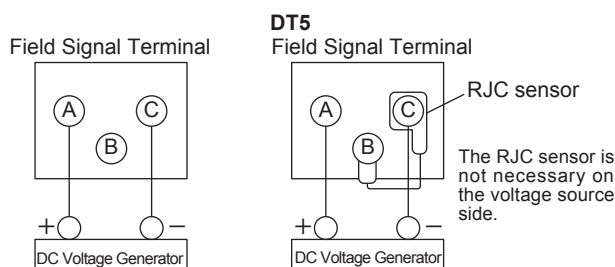


CAUTION

Connect the input signal line of DG1, DB1, DD1 to converter-front terminals 1 and 2. An incorrect connection may cause overheating or burning of the nest (DMP/DME).

Page 7-4 Section 7.2 CALIBRATION

Replace with the following text:

7.2.3 Connection to Calibration Equipment**(1) DM1, DT5, DH1, DH2, DH5 (No input resistance)****Page 7-6 Section 7.2 CALIBRATION****7.2.4 Calibration of DM1, DT5, DR5, DS1**

Apply the input signal equivalent to 0, 25, 50, 75, and 100% of span to signal conditioner through voltage generator or variable resistor according to the measuring range.

In case of DT5, after turning off the RJC via C08 parameter, apply mV corresponding temperature to between terminals A(+) and C(-) by referring to the list of thermo-electromotive force. (The semiconductor sensor is not necessary.)

Check the value indicated on the control system CRT screen or output terminal of the DXT card that each "output 1" is 1V, 2V, 3V, 4V, 5V and is within accuracy rating range.

(No adjustment trimmer. Check only.)

Also, make sure the difference between "output2" and "output1" is within $\pm 0.2\%$ of span.

Page 8-3 Section 8.3 SETTING AND INPUT/OUTPUT ADJUSTMENT

Add the following content: 8.3.4

8.3.4 RJC ON/OFF (C08)

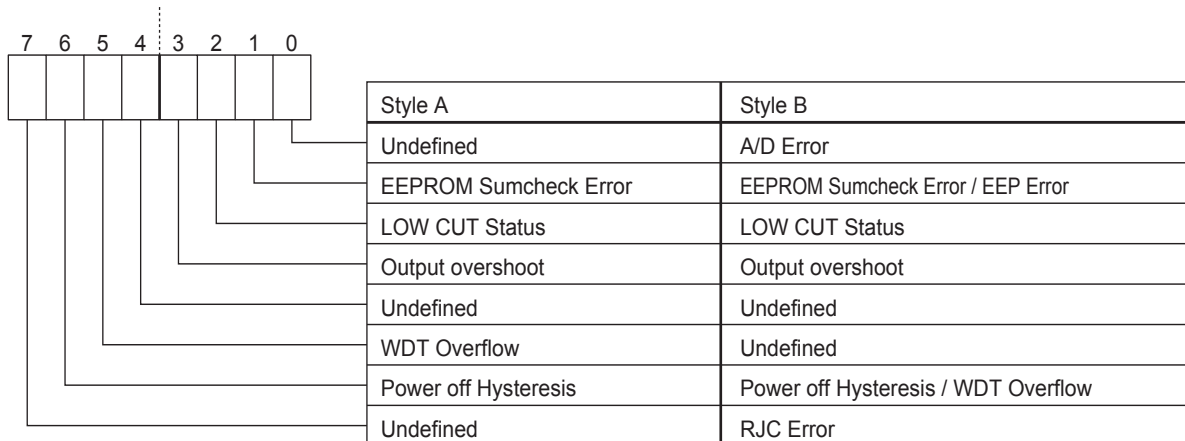
The RJC can be paused during the adjustment for the input, etc. It returns to ON mode when the main unit is turned off and then on again.

Page 8-3 Section 8.4 OTHER DISPLAY AND SETTING ITEMS

Replace Table "8.4.1 STATUS" with the following:

8.4.1 STATUS(A03)

Bit Allocation for STATUS



Page 8-4 Section 8.5 TABLE OF PARAMETERS

DT5 and DR5 have been replaced with the following:

| Number | Item | Display | Data display for each signal conditioner | |
|----------|-----------------------------------|----------|--|--------------------------|
| | | | DT5 | DR5 |
| 01 | Model | MODEL | DT5*B | DR5*B |
| 02 | Tag No. | TAG NO. | Alphanumeric 16 characters | |
| 03 | Self check | SELF CHK | GOOD or ERROR | |
| A00 | Display item | | | |
| A01 | Input value | INPUT | □□□□.□degC(*5) | □□□.□degC(*5) |
| A02 | Output value | OUPUT | □□□.□% | |
| A03 | Status | STATUS | FF(2 digits in hex) | |
| A04 | Rev No. | REV NO. | n.nnn (n: Revision number) | |
| B00 | Setting item | | | |
| B01 | Tag No.1 | TAG NO.1 | Alphanumeric 8 characters | |
| B02 | Tag No.2 | TAG NO.2 | Alphanumeric 8 characters | |
| B03 | Comment 1 | COMMENT1 | Alphanumeric 8 characters | |
| B04 | Comment 2 | COMMENT2 | Alphanumeric 8 characters | |
| B05 | DR5 Input type | TYPE | | PT/JPT/PT100-90/PT50(*1) |
| B06 | DT5 Input type | TYPE | B/E/J/K/T/R/S/N | |
| B09 | Temperature unit | UNIT | degC/degF/K | |
| B10 | Zero | ZERO | □□□□.□degC | |
| B11 (*2) | Span | SPAN | □□□□.□degC | |
| B12 | Burnout | BURN OUT | OFF/UP/DOWN | |
| C00 | Adjustment item | | | |
| C01 | 0% Output correction | OUT0% | ±10.00 | |
| C02 | 100% Output correction | OUT100% | ±10.00 | |
| C03 | Wire resistance compensation (*3) | WIRING R | EXECUTE/RESET | |
| C04 | Input Zero adjustment | ZERO ADJ | □□□.□□□mV RST/INC/DEC | □□□.□□□Ω RST/INC/DEC |
| C05 | Input Span adjustment | SPAN ADJ | □□□.□□□mV RST/INC/DEC | □□□.□□□Ω RST/INC/DEC |
| C08 | RJC ON/OFF | RJC | ON/OFF(*6) | |

*1 PT=Pt100 (IPtS-68:JIS'89), JPT=JPt100 (JIS'89), PT100-90=Pt100 (ITS-90:JIS'97), PT50=Pt50 (JIS'81)

*2 The measurable data is the range described in the standard specifications.

*3 The wire resistance compensation is the function to correct the errors that occur when the external conductor resistance is high. (It is mandatory for the combination with BARD Safety Barrier)

*5 The temperature unit displayed is the unit that was set up with the parameter [B09: UNIT].

*6 The RJC returns to "ON" after the power is turned off and then on again.

