

Setting Pointer's Structure & Electrical Wiring

Setting pointer's structure of bimetal thermometer with electrical switch (See DWG-3).

The electrical wiring of bimetal thermometer with electrical switch (See DWG-4)

Wiring between instrument and barrier of isolation amplifier relay output. (See DWG-5).

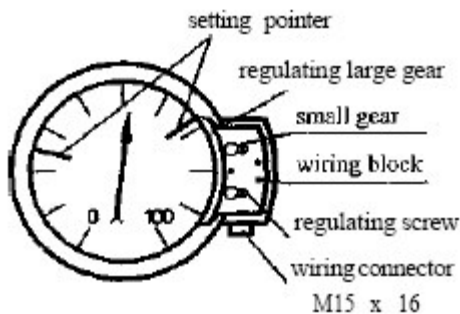
- Output settings of upper limit of instrument (or first upper of dual upper limit, first lower of dual lower limit) are connected with terminals 1(-), 2(+) of barrier of isolation amplifier relay output.
- Output settings of lower limit of instrument (or second upper of dual upper limit, second lower of dual lower limit) are connected with terminals 8(+), 9(-) of barrier of isolation amplifier relay output.
- The output terminals through barrier of isolation amplifiers relay output are according with the function of instrument:
 - Terminals 10, 12 are normally-close contacts of the barrier upper limit (or first upper of dual upper limit, first lower dual of dual lower limit).
 - Terminals 10, 11 are normally-open contacts of the barrier upper limit (or first upper of dual upper limit, first lower dual of dual lower limit).
 - Terminals 13, 14 are normally-close contacts of the barrier upper limit (or second upper of dual upper limit, second lower dual of dual lower limit).
 - Terminals 13, 15 are normally-close contacts of the barrier upper limit (or second upper of dual upper limit, second lower dual of dual lower limit).
 - Terminals 17, 18 are used for -power supply (220VAC), terminal 16 is for grounding and the ground resistance $\leq 1 \Omega$

The wiring diagram of thermal resistance (See DWG-6)

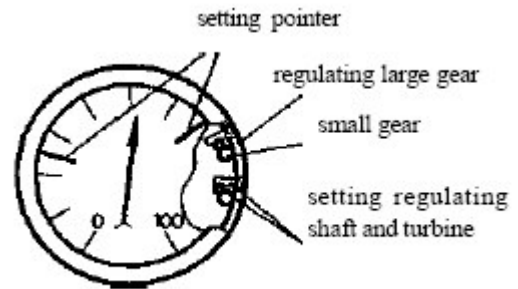
The wiring diagram of thermocouple (See DWG-7)

The wiring diagram of thermal resistance (thermocouple) and temperature transmitter (See DWG-8)

A) The setting pointer's structure of bimetal thermometer with electrical switch



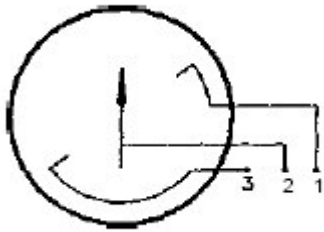
DWG-3



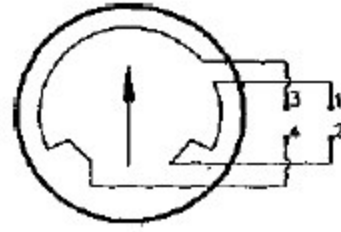
a. structure of general purpose setting switch

b. structure of explosion-proof & intrinsically safe setting switch

B) The electrical wiring of bimetal thermometer with electrical switch



DWG-4



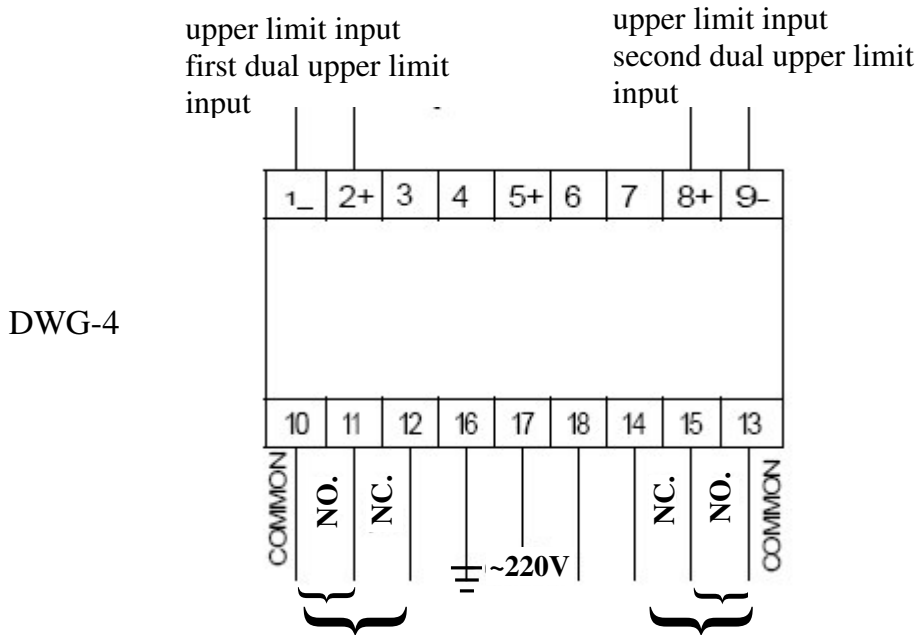
c. NO type:

1 and 2 are connected with upper, first dual upper, first dual lower limit 3 and 2 are connected with lower, second dual upper, second dual lower limit

d. NC type:

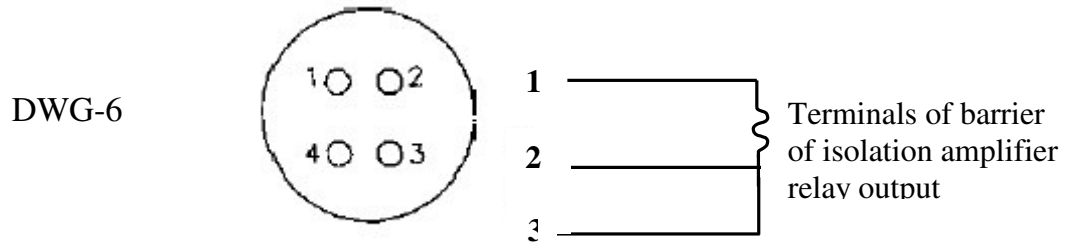
1 and 2 are connected with upper, first dual upper, first dual lower limit 3 and 2 are connected with lower, second dual upper, second dual lower limit

C) Wiring between instrument and barrier of isolation amplifier relay output



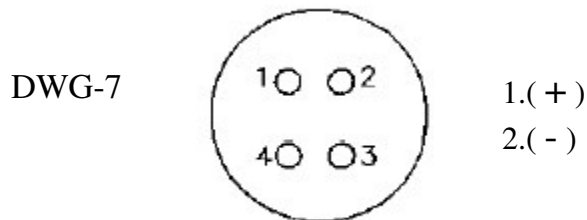
DWG-4

D). The wiring diagram of thermal resistance



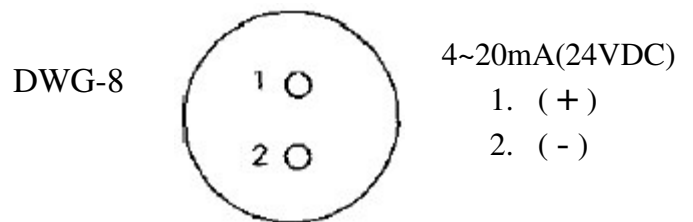
DWG-6

E) The wiring diagram of thermocouple



DWG-7

F) The wiring diagram of thermal resistance, thermocouple and temperature transmitter



DWG-8