

Resistance Controller

User Manual

Thanks a lot for selecting products! Before operating this instrument, please carefully read this manual and fully understand its contents. If have problems, please contact our sales or distributors whom you buy from. This manual is subject to change without prior notice.

Warning

Please do not turn on the power supply until all of the wiring is completed. Otherwise electrical shock, fire or malfunction may result.

Do not wire when the power is on. Do not connect the unused terminals. Do not turn on the power supply when cleaning this instrument. Do not disassemble, repair or modify the instrument. This may cause electrical shock, fire or malfunction.

Use this instrument in the scope of its specifications. Otherwise fire or malfunction may result.

The use life of the output relay is quite different according to it capacity and conditions. If use out of its scope, fire or malfunction may result.

Caution

This instrument should be installed in a domestic environment. Otherwise electrical shock, fire or malfunction may result. The operating temperature environment should between 0 (32F) to 50 (122F).

To avoid using this instrument in environment full of dust or caustic gas.

To avoid using this instrument in environment of strong shock or concussion.

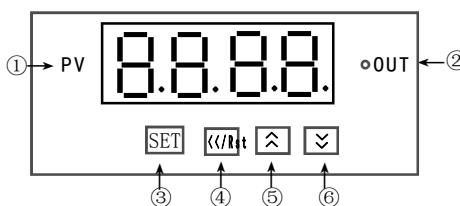
To avoid using this instrument in environment of overflow water or explosive oil.

The instrument has the recoverable protection parts. It can prevent damages in case of short circuit.

Applications

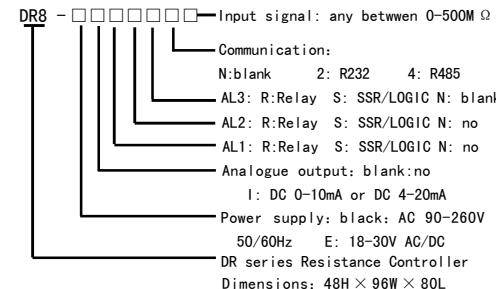
The instrument has data/peak value holding function for option. It's mainly for resistance measurement(0~500MΩ), rapid test for electrical elements/resistance kinds of signal in production line, or act as electronic position controller.e.g. electronic ruler.RS485 interface can be offered to realize remote control by PC/PLC. Input/output isolates from the power supply.

Name of parts



- ① Measured value (PV)
- ② Indicate lamp for output
- ③ Select/Confirm key
- ④ Shift/Clear /Reset key
- ⑤ Up key
- ⑥ Down key

Models



★ Input signal is selected by user

Input signal	Measurable range	Input resistance
0	0.01~100.00 Ω	≤ 0.5mA
1	0.1~10.0 K Ω	≤ 0.5mA
2	0~200 K Ω	≤ 0.5mA
3	0~10 M Ω	≤ 0.2mA
F	Others, e.g. 0~500M Ω	≤ 0.2mA

Specifications

Power supply	90~260V AC 50/60Hz
Consumption	≤ 5VA
Accuracy	0.3%F.S ± 2digit
Sampling rate	≤ 8 times/second
Alarm	Relay: NO AC 250V/3A or DC 30V/3A cos =1
Input	refer the input signal selection
Analogue	0~10V or 4~20mA, free set for control output range by software
Auxiliary Power	DC 12/24V/30mA
Communication	RS232 or RS485 for option

Dimensions

96W × 48H × 80L House hole:91.5+0.5 × 45.5+0.5

Parameters setting

1. Alarm setting: In the displaying estate, press and hold SET key for more than 3 seconds, enter alarm mode parameters setting menu. Press </> RST key, LED flashes, press UP/DOWN key to modify, and then press SET key to

confirm. Press SET key to read the following parameters one by one.

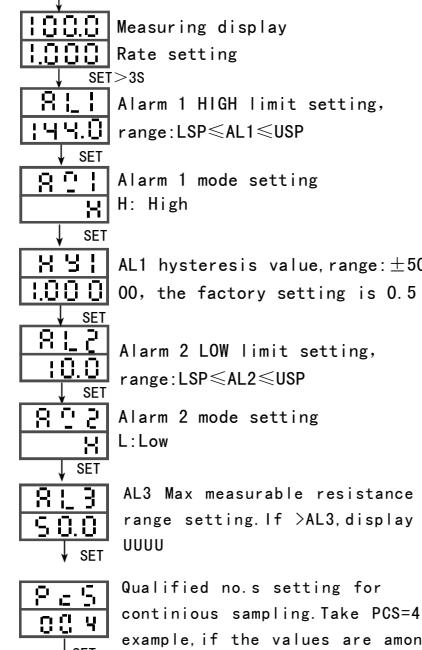
2. The instrument will return to the measuring estate without any operation for 25 seconds.

Resistance Judgement Principle

When the value of the inspected resistance (R_t for short) is between: $AL2 < R_t < AL1$ under PCS times continuous sampling, then the inspected as a qualified products. The OK relay works, and OUT lamp on;Otherwise the meter will keep on inspection. When R_t is not between $AL2, AL1$ under PCS times continuous sampling, then the inspected as a unqualified products. The NG relay works, OUT lamp OFF. When you remove R_t , the meter will display UUUU. You can prepare another operation again. If the judgement is qualified,OK relay will reset automatically,OUT lamp off, and prepare for next operation;If the judgement is unqualified,you should reset NG relay by pressing RST in the front panel of meter,or connect the RST terminal ,otherwise, you can not do next operation.

Operation process

Press SET>3s to enter setting menu



AL3 Max measurable resistance range setting. If $>AL3$, display UUUU

Qualified no.s setting for continuous sampling.Take PCS=4 as example, if the values are amont AL1 and AL2 for continuous 4 times,then it's a qualified product.OK displays.

n c S Max sampling times for adjustment.
0 12 Take NCS=12 as example,if the values are not among AL1 and AL2 for 12 times continuous sampling, then it's an unqualified product. NG displays.

H 52 AL2 hysteresis value,range:±50.00, the factory setting is 0.5
↓ SET

P 0.0 Offset value display,
Offset value=PV-PVF, range:±50.0
↓ SET

In P 0.0 Input signal selection.
28V A 2U rt 9E bc Please fix it to "rt"
↓ SET

L SP 0.0 Low display setting,
range:-1999~9999
↓ SET

U SP 100.0 Input High display setting,
range:-1999~9999
↓ SET

d PI 000.0 Decimal point setting: 0-3 stands
for 0000, 000.0, 00.00 and
0.000 separately
↓ SET

t r L 0.0 Analogue Low value setting
range:LSP ≤ trL ≤ USP
↓ SET

t r H 100.0 Analogue High value setting
range:LSP ≤ trH ≤ USP
↓ SET

R d d 000 Communication address selection
Range:000~255
↓ SET

L C k 000 Parameter lock password.
LCK=000 means the parameter can
be modified.
LCK=010 means it can be read only.
↓ SET

Return to AL1

Diagram connections

