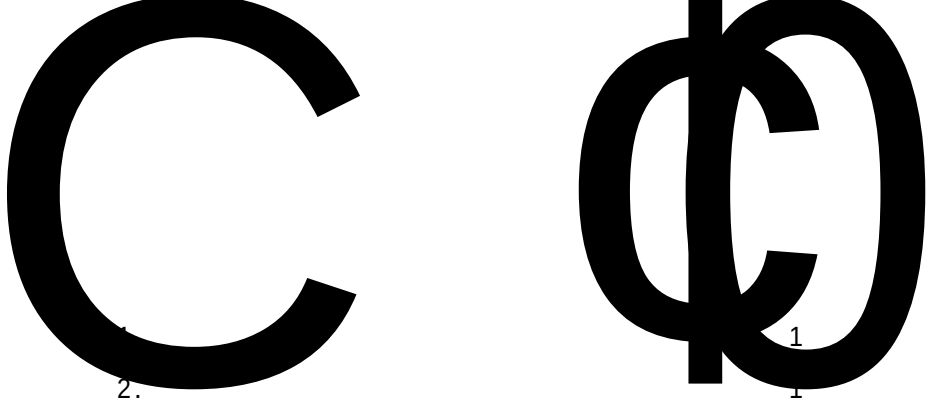
.....3
.....3
2.1 3
2.2 4
2.2.1 4
2.2.2 4
2.3 4
2.4 5
2.4.1 CT5210 5
2.4.2 CTGL10S 5
2.4.3 CT5202C+.....5
.....7
3.1 CT5210 7
3.1.1 7
3.1.2 8
3.2 CTGL10S 15
3.3 CT5202C+ 16
3.3.1 16
3.3.2 16
.....17
4.1 17
4.1.1 17
4.1.2 17
4.1.3 18
4.2 18
4.2.1 18
4.2.2 18
4.2.3 19
4.3 20
4.3.1 20
4.3.2 20
4.3.3 21
4.4 21
4.5 22
4.6 22
4.7 23
4.7.1 23
4.7.2 23
4.8 24
.....24
5.1 24
5.2 25
5.3 25

5.4 26
5.5 26
.....27



1
2. 1
3. CT5202C+ 1
4. CT5202B 1

2.3

1 :0 200Ω, :1mΩ
2 :±(×1%±1mΩ)
3 :
4
5 40Hz 70Hz 1 Hz .
6 : 0 200V/50A 0 400V/25A 0 800V/12.5A .
7 10kW
8 15Min, 50% 60Min.
9 : .
10 1000 .
11 : 220V(A C) 380V
12 : U ĩ 100 .
13 : -10 50 <90%

2.4

1. AC220V(A

4 200V/12.5A 4 0 200V/50A 0
400V/25A 0 800V/12.5A
1 10kVA
2 0 200V/50A 0 400V/25A 0 800V/12.5A
3 40 70Hz

2.4.3.1 CT5202C+

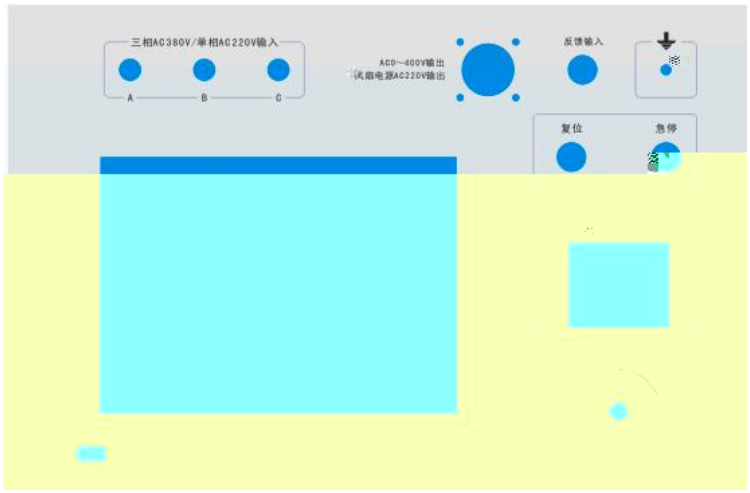
1. 12V3A
2. 40 70Hz
3. 1Hz
4.
   0 200Ω ±1.0% 1mΩ
   AC 0 800V ±1.0% ±0.5mV
   AC 1 50A ±1.0% ±0.5mA
   180.0° -180.0° 5° 1°
5.
6. 1000
7.
8. U 100
9. -10 50 <90%

2.4.3.2 CT5202C+ ( )

1. 45 65Hz
2. : 0 50A
3. ±0.5% ±0.5mA
4. 1000

03

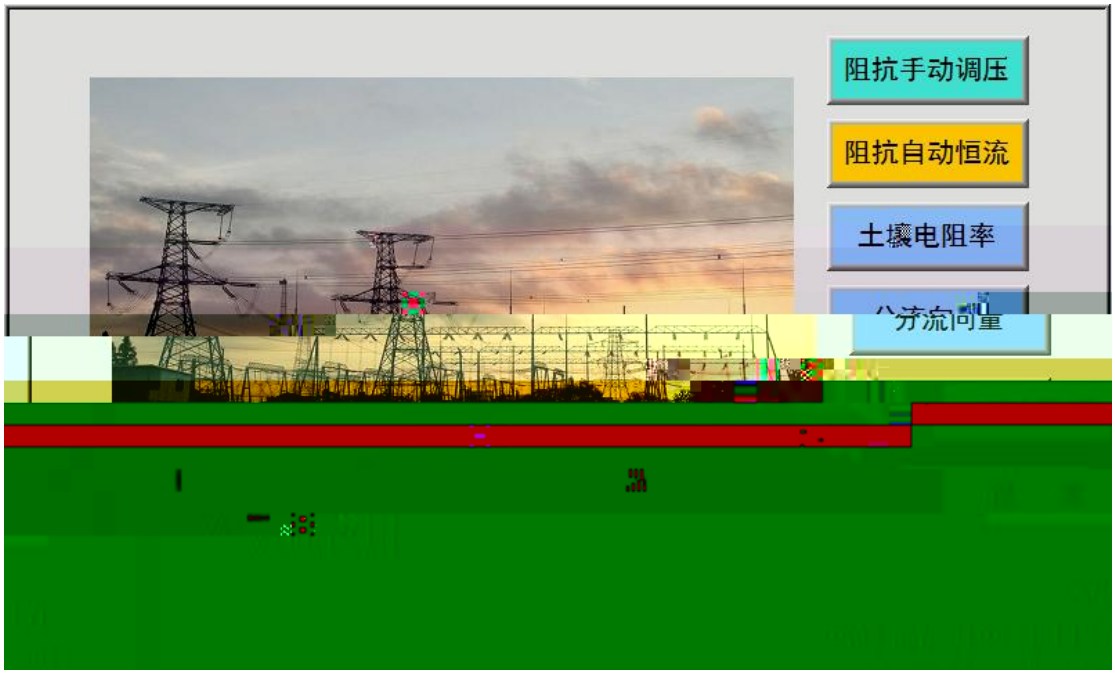
3.1 CT5210



3-1

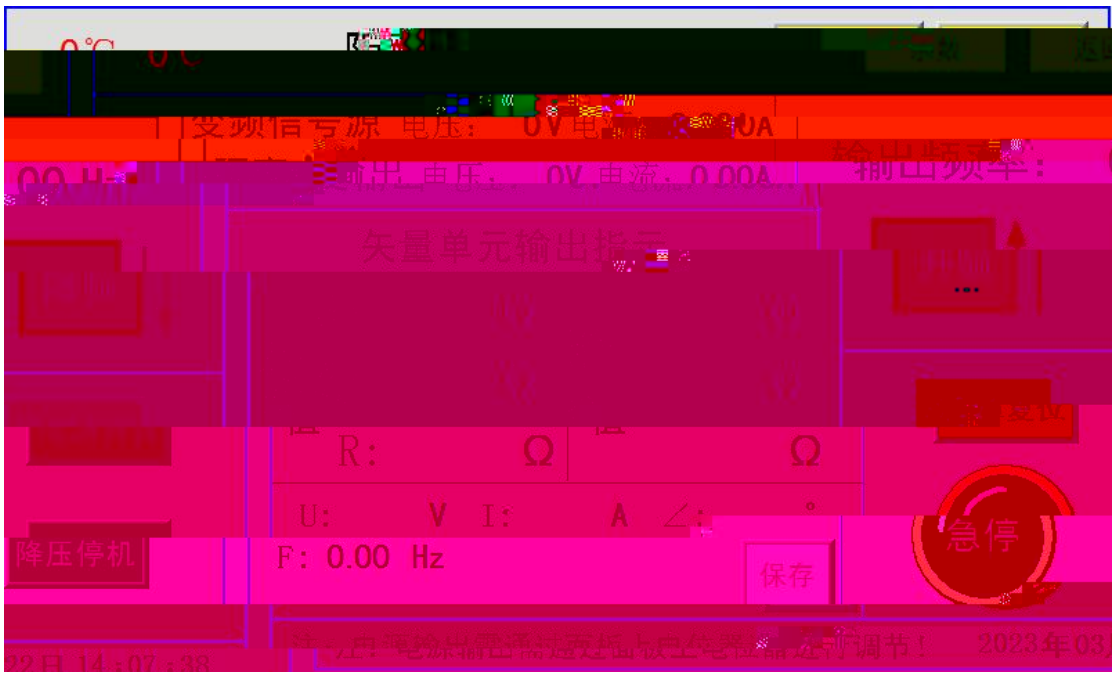
- AC220V AC380V AC220V 5kW(A B C)

-
-


阻抗手动调压
阻抗自动恒流
土壤电阻率

- ，
-
-
-
-
-

3.1.2.1



-
-
-
- 1Hz
- 1Hz
-
-
-
-
- PG d CG d

K

- Z = K * Z ’ K = 1.0

$$K = \frac{1}{1 - \frac{D}{2}\left[\frac{1}{u_{PG}} + \frac{1}{u_{CG}} - \frac{1}{\sqrt{d_{PG}^2 + d_{CG}^2 - 2}}\right]}$$

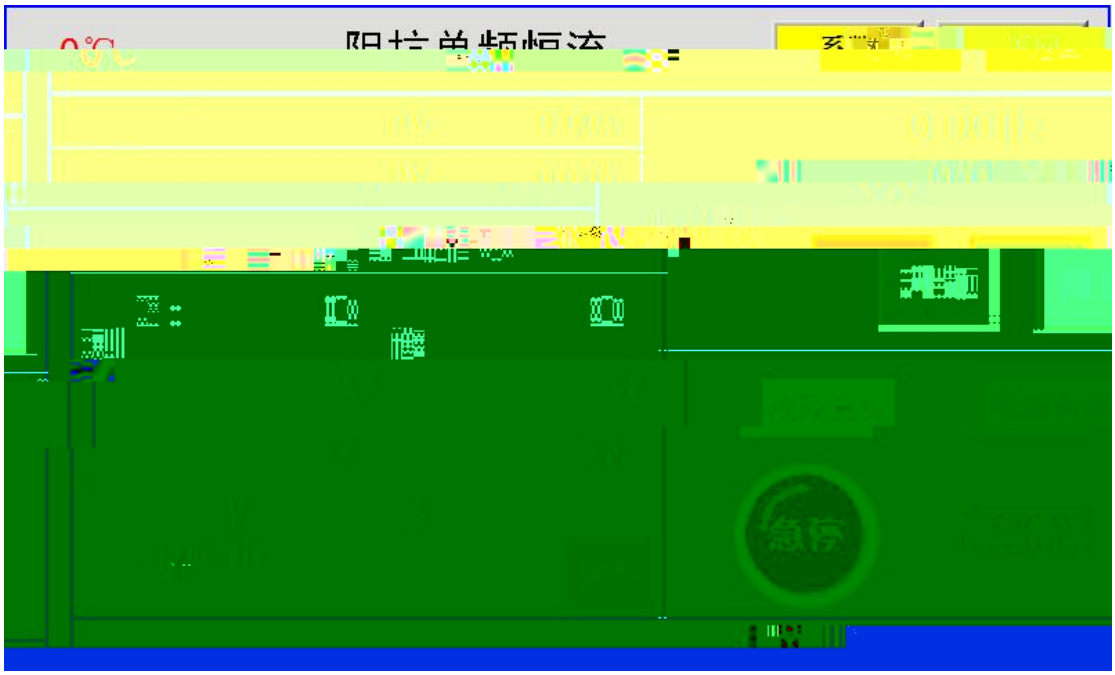
d PG km 0~60km

dCG km 0~60km

D km 0~30km

θ 0~359.99 °

3.1.2.2



3.1.2.

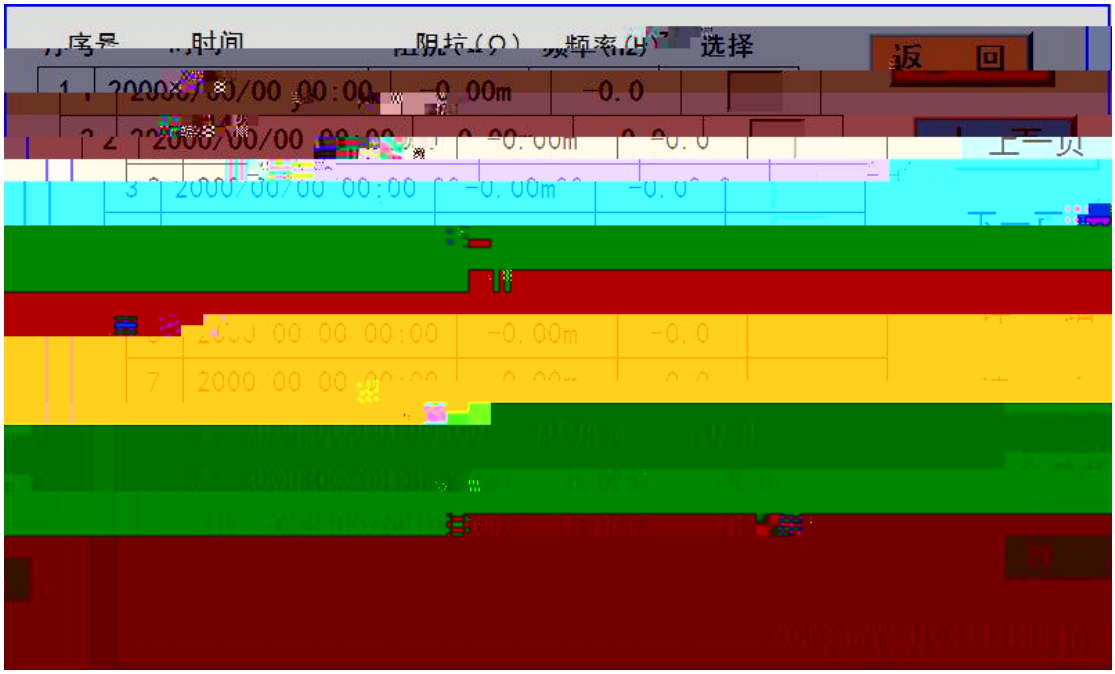
3.1.2.4

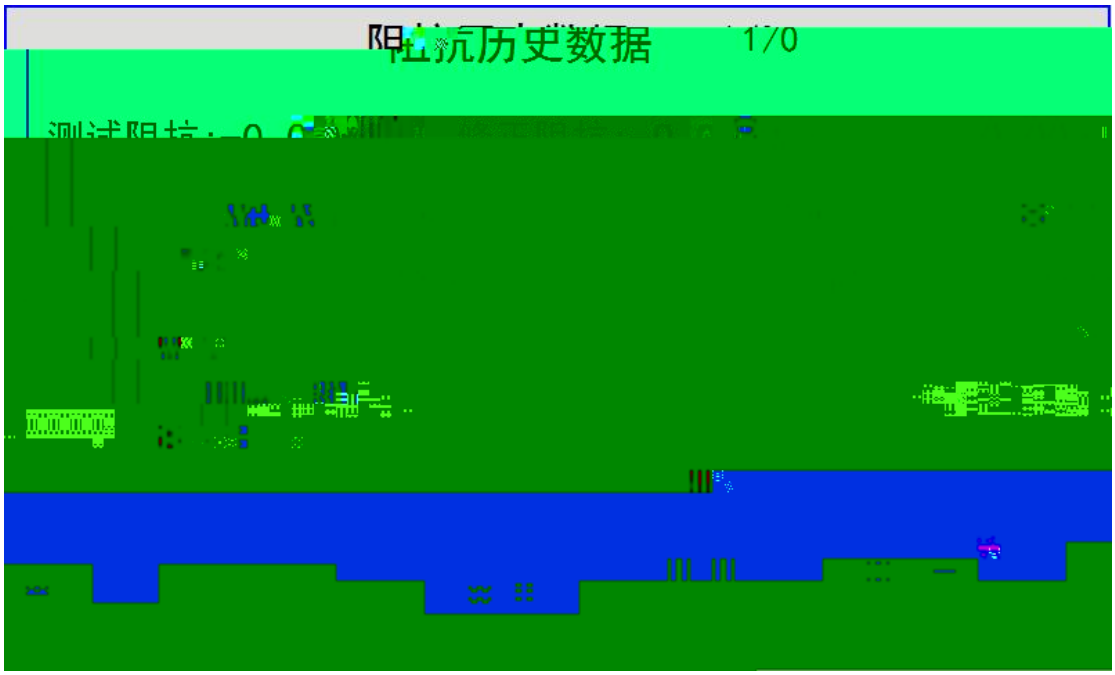
5

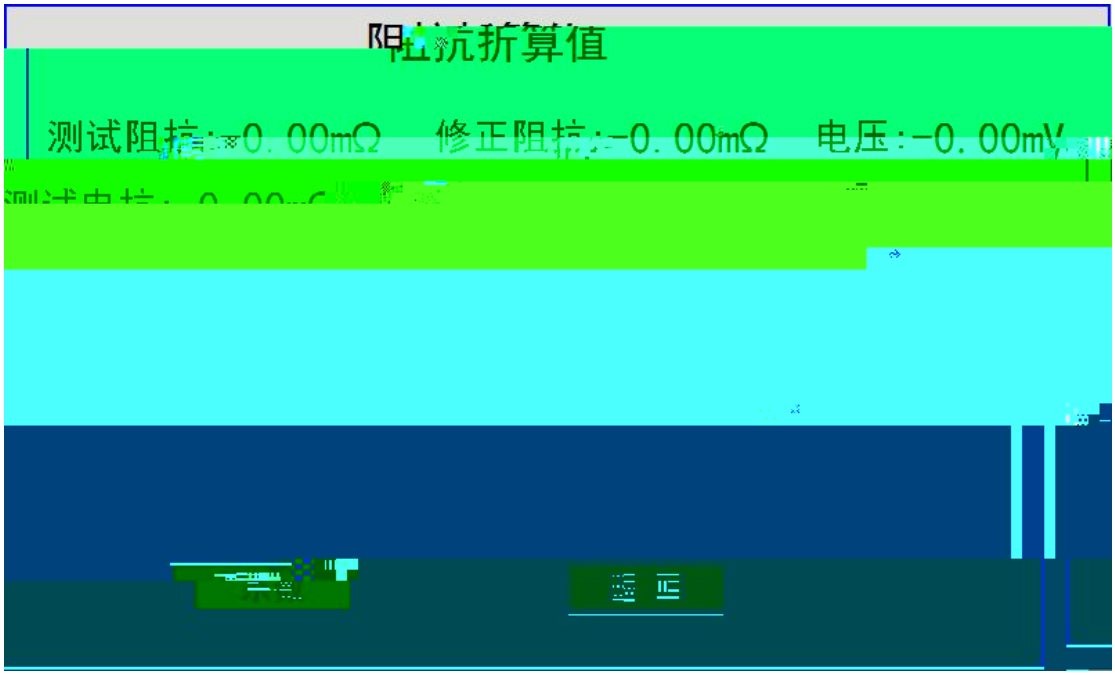
4. GPS

5.

3.1.2.5

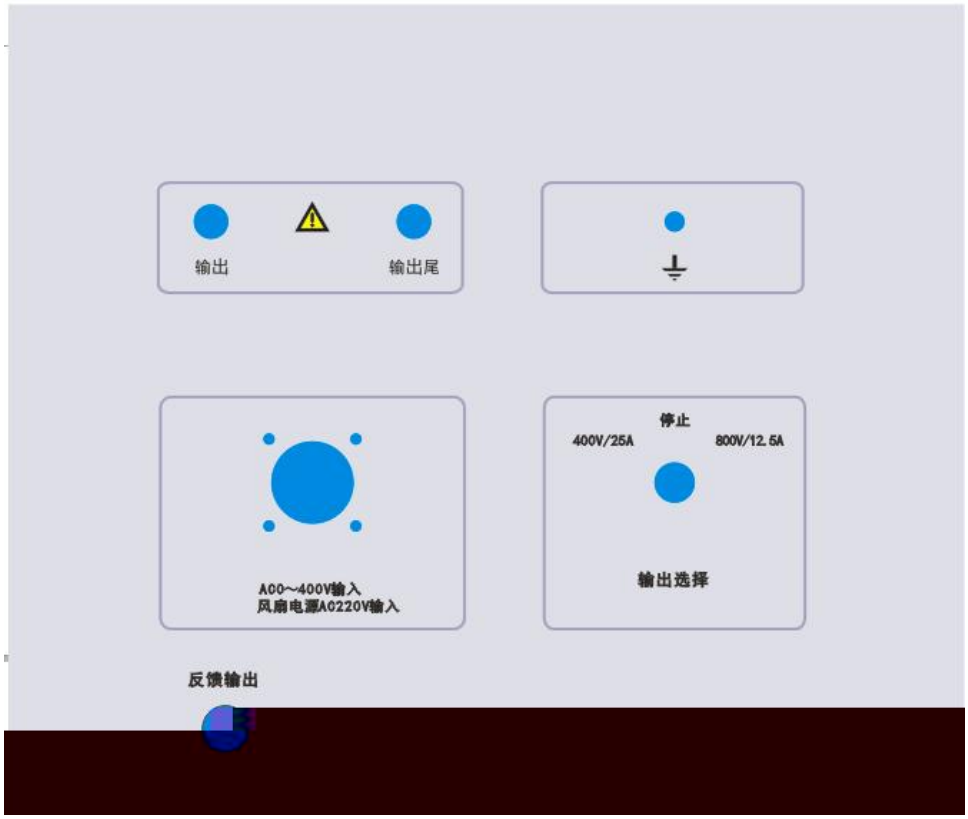



阻抗历史数据
1/0


阻抗折算值
测试阻抗:-0.00mΩ
修正阻抗:-0.00mΩ
电压:-0.00mV
返回

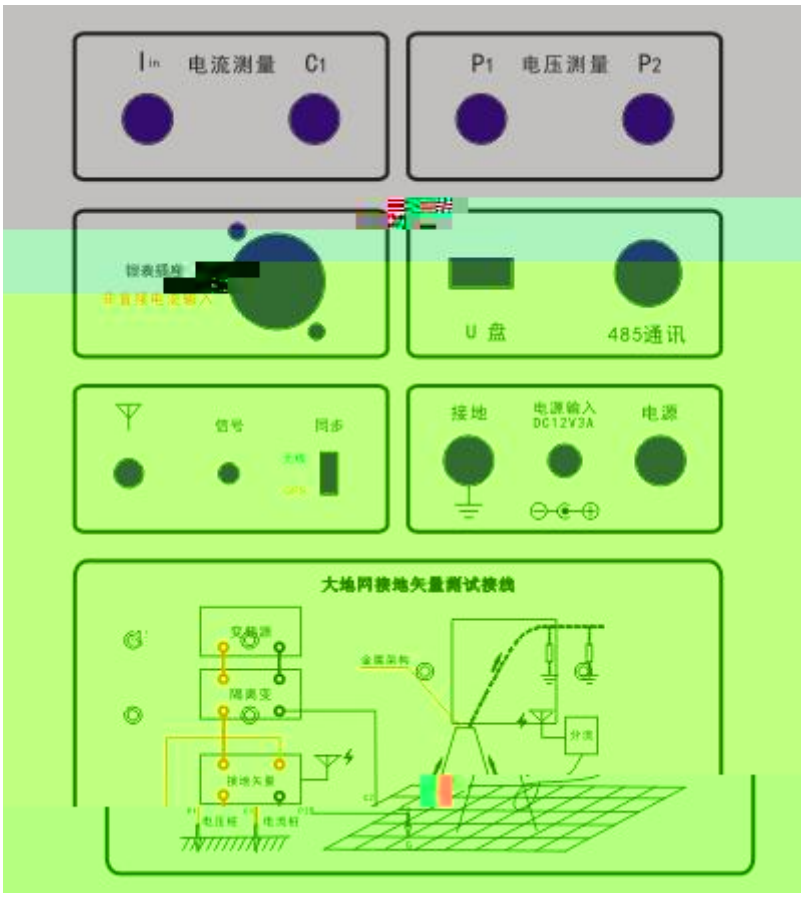
3.2 CTGL10S

4 200V/12.5A 4 0
200V/50A 0 400V/25A 0 800V/12.5A 3-3
“ ” “ ”



3-3

3.3 CT5202C+



1. AC0~800V
2. (“ CT ”
) 1 50A
3.
4. :12V3A

1. ( ) 1 50A
2.
3. GPS GPS

4.
5.

6. GPS

7.
8. :12V3A

4.1

4-1

dCG D 4 5

dCG 2D, 3D

-
-
-
- 20cm
-

4.2

DL/T 475-2006

4-1



G C I P G

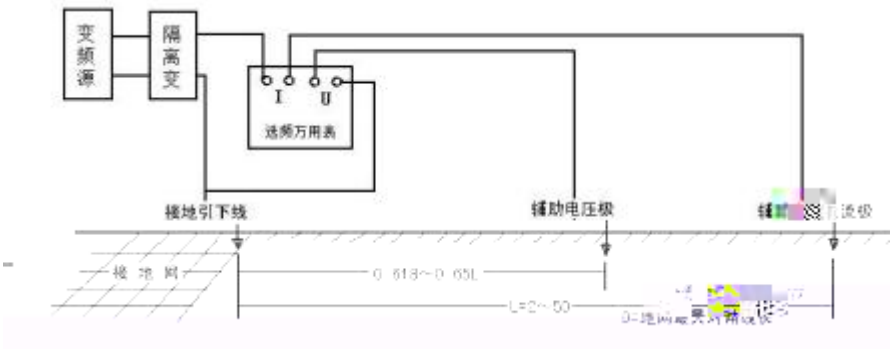
45 ° 30 °

d 50m 100m 200m P G U U x

Um Z Z=Um/I

C

4-2



4-2

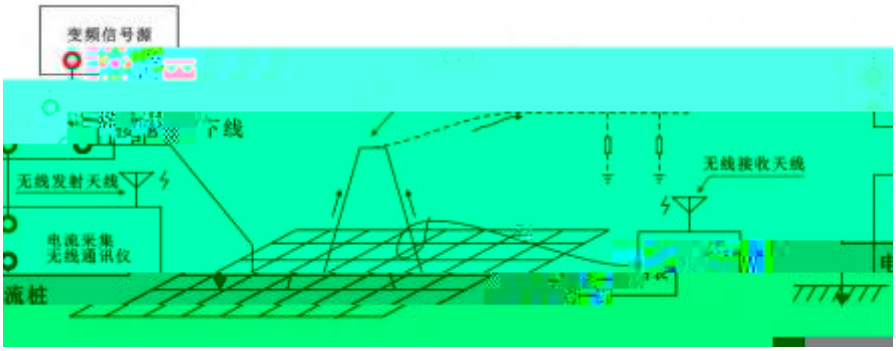
- 1
-
-

Z

P 20cm

m*

4.5



4-6

I

K

I∑ θ∑=I1 θ1+I2 θ2+…+In θn IG θG=I 0° +I∑ θ∑

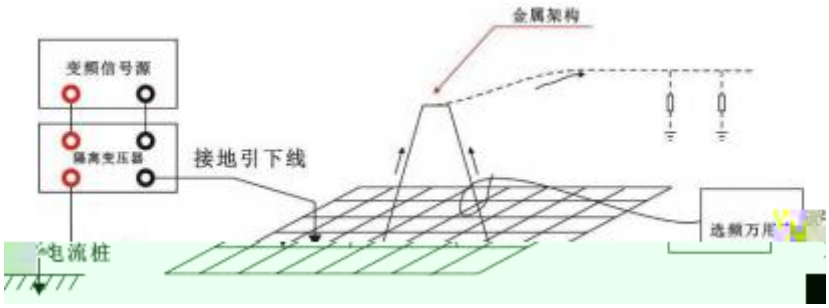
$$K = \frac{I_G}{I} \times 100\%$$

K 9

4.6

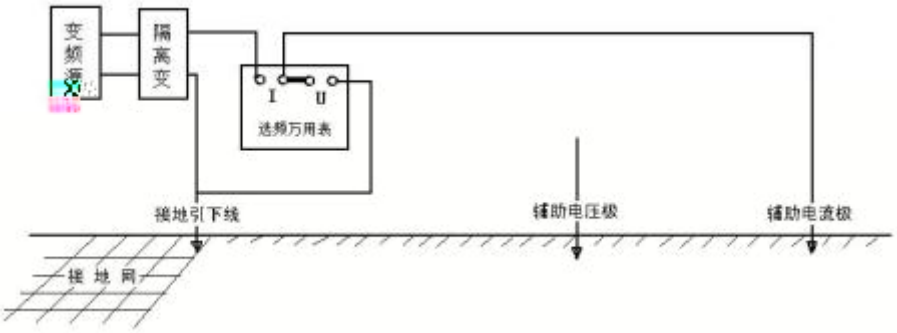
4-7

“ ”



4-7

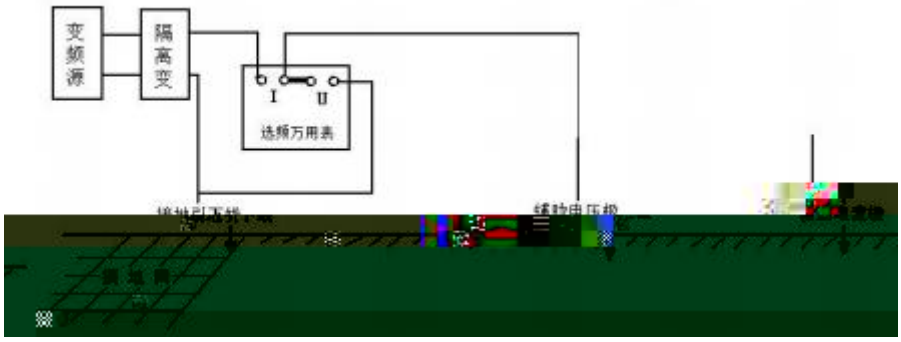
4.7



4-8

4-8

4-9



4-9

4.8

DL/T 475-2006

80 2.5A . “ 4.1 ”

4-2 4-3 4-4

4-5 4-7

-6

5.2

4-2 4-3

4 4-9

4-10

2.

“ ”

“ ”

PG C D “

K

’ R ’ PG CG

K=

“ CT ” CT c,

100 r ,

50A

"

"

2.

“ ”

Rm “ ” “ ”

=Ku × 1

Ku=1

3.

5.4

1.

4-7

2.

“ ”

“ CT ” CT Kc,

1A/1mA 1000 Kr ,

1 50A

5 10A(50A/5)

“ ”

“ ” “ ”

3.

5.5

1. 4-6

2.

5 GPS GPS

GPS

3.

“ ”

“ CT ”

CT Kc, 1A/1mA 1000

Kr , 1

50A 5 10A(50A/5)

4. GPS GPS

“ ” 5

  GPS 

GPS  “ ”

5.
6. ( )



 Im K

1.
2. 20V Rm
3. GPS GPS GPS
4. GPS
5. 5

5
6.

7.
8.

1 3A 6 9

2 3A 1

3

4