

# N68-C Porosity/Holiday Detector

Instruction



Haian Discory Detecting Instrument CO.,Ltd

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#### Foreword

Thank you for using N68-C Porosity/Holiday Detector. It is great honor to service for you. In order to make sure that you can use this instrument as soon as possible, the instrument is equipped with manual.

This manual is an important part of instrument. It can provide you a safety guideline. Please read this manual carefully before use our instrument. And after read please keep this manual in a good way.

Haian Discory Detecting Instrument CO., Ltd reserves the right to improvement and innovation of the instrument without prior notice. If any problem during using, customer can connect us by following ways.

- 1, Service tel: 400-012-6866;
- 2, E-mail: postmaster@dscr.com.cn;
- 3. Our web side: http://www.dscr.com.cn.

#### 1, Overview

N68-C Porosity/Holiday Detector is professional equipment used to detect the porosity of anticorrosive layer such as 0il and gas pipelines, cables, enamel, metal tank, and hull. N68-C have installation of imported Electronic high voltage generator, and it was adopt computer control technology, meet the national standards. GB7993 and German standardDIN55670.

#### 2. Introduction

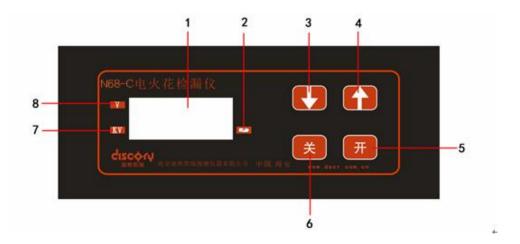
#### [Characteristic]

- 1. Microelectronic integrated high voltage generator, to overcome the electrostatic;
- 2, digital display, high-precision;
- 3. Automatic switch for High voltage and source voltage;;
- 4. Power on self test function:
- 5, protective function when mistakenly entered.

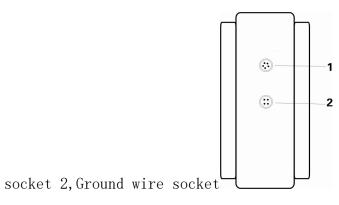
#### [Main technical index]

- 1. Measuring range: 0.03-10.mm
- 2, 2, Output high voltage: 0.5-35KV
- 3. Display: digital display
- 4. High voltage control system: digital governer
- 5, 12V dc power supply
- 6, Consumption: <5w
- 7. Alarm delay: 1-2s
- 8. High voltage probe: high pressure generator (import)
- 9, Packing: Aluminum box
- 10, Main dimension: 165mm×155mm× 68mm
- 11. Weight: 1kg

#### (2) Host panel:



- (1) digital display: display power and high voltage;
- (2) Battery: When battery lower than 11V, the display panel will show an alarm lamp, then should be charge;
- (3) ↓: Decrease output high voltage;
- (4) | The increase output high voltage;
- (5) ON;
- (6) OFF;
- (7) Output high voltage.
- (8) Power;



(5) Removable battery



#### 3. Detection principle

- (1) Detection principle: Metal surface insulation coating too thin or leakage, when the high voltage go through, will have Spark discharge, then it has sound alarm.
  - (2) structure: host, High voltage gun, The brush plate.
  - 1. host: Digital control circuit with sound alarm and battery
- 2. High voltage gun: connect the brush plate, Electronic high voltage generator inside



3. The brush plate: The brush plate(Standard) and The elastic FanBrush(optional).

#### 4, notes

- 1. DO NOT use the equipment in any combustible, flammable or other atmosphere where an arc or spark may result in an explosion.
  - 2, technicians should wear insulated gloves during working.
  - 3, keep pipe line 20cm form ground.
- 4, using in outside, if battery low, should be charge immediately
  - 5, keep coating surface dry and clean
  - 6, if idled too long, should be charge every 3 month

### Operation steps

1. Connect the long cable: connect the long cable with four-pin plug to the right side four-pin socket. (Host will not work without long cable)



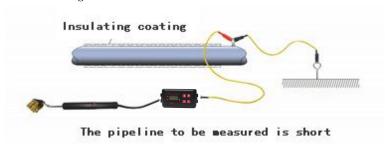
2. Turn on the host: push the  $\overline{\text{ON}}$  button, and the LCD will displays voltage should be  $\geqslant 11\text{V}$ . if lower should charge

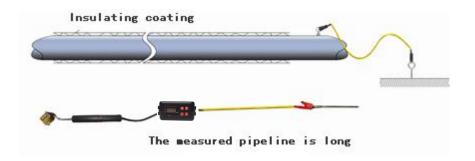


3. Before detecting, connect the high voltage gun with five-pin plug to the right side five-pin socket.



4. Put the connecting magnet on the pipeline, and connect between long cable and the short connecting line, make sure the short connecting line have effective ground connection.





5, put the brush plate into high voltage gun

6. The Formula of regulate the output high voltage

(1) T > 0.5 mm: U=7900T1/2

(2)  $T \le 0.5 \text{mm}$ : U=3300T1/2 or  $5 \text{V} / \mu \text{ m}$ 

U -- Output high voltage(v) T -- Thickness of anticorrosion coating (mm)

To regulate the output high voltage, first should push the red bottom on the high voltage gun, and then push the  $\uparrow$  key to rise or  $\downarrow$  key to lower the output high voltage.

7, put the brush close to the pipeline (cannot be touch), can see spark with sound and light alarm, means the detector is running normally. 8, Start to work.

#### The main parts

#### Date:

Date:					
No.	Name		Item No.	Quantity	Picture
1	host			1	######################################
2	High voltage gun			1	
3	The brush plate			1	The state of the s
4	charger			1	
5	Long cable			1	
6	Short cable			1	
7	Connecting magent			1	
8	Earth rob			2	
9	high pressure gloves			1	
10	manual			1	Manual certificate

The supervisor: Packing: Check:

## Certificate of inspection Hai Yi (word) No. 325th

Manufacturer: Haian Discory Det	ecting Instrument CO., Ltd		
Product name: Porosity/Holiday Detector			
Specifications:			
Factory no.:			
Test conclusion:			
	Executive director:		
	Test:		
	Verification:		
	date:		

#### warranty card

		date	У	m	d
Product	Porosity/Holiday	Purchas			
name	Detector	e date			
model		No.			
Quantity		Customer			
Quantity		name			
tel		tel			
add		Zip No.			

#### Repair records

Repair times	1	2	3
trouble			
situation			
Repair date			
Repair			
personnel			

#### warranty card:

- 1 the warranty period: 1 year
- 2 the warranty conditions: customer used instrument normally, and In the warranty period
- 3 Paid repair: (1) no warranty card or invoice
  - (2) remove Voluntarily
  - (3) improperly secured,
  - (4) Man-made damage, Natural disasters or improper operation of irresistible cause
  - (5) over the warranty period
- 4 Users should keep a good this card, this card shall not be altered.
- 5 With the card and certificate of inspection to repair

#### service

#### dear customer:

thank you for using our product, Quality is our lifeblood of a brand, develop on credit, good service is our purpose.

#### **Our commitment**

- 1 our production process strictly implement the ISO9002 international quality standard system
  - 2, 24hours service
  - 3, provide training
  - 4. one year warranty, life-long maintenance
  - 5. provide technical support and spare parts replacement
  - 6, pay attention to the feedback and suggestions
  - 7. The on-line service, online interpretation

#### After-sale service

1, 24hours hot-line (400-012-6866)

We guarantee 4 hours to solve the problem, after we received your phone call if solving problem on site is necessary. We guarantee 24 hours on the main city, and 48-72 hours on others

if hardware failure, we guarantee solving problem after 2days

2. E-mail service (<u>postmaster@dscr.com.cn</u>)

reply not over 12 hours

3, web side (www.dscr.com.cn)

Introduction and connection

4、 fax (0513-88931551)

reply not over 4 hours

5. Emergency service

we will arrive at the customer scene in the shortest time

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