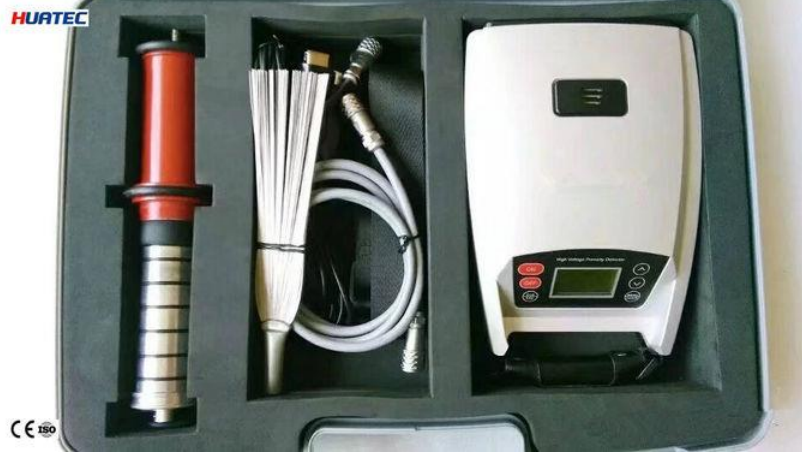


دستگاه هالیدتکتور (دستگاه منفذیاب) HD-105

HUATEC HD-105 High voltage Pinhole Detector / Holiday Detector



Product introduction

HUATEC HD-105 High voltage Pinhole Detector is intelligence pulsed high voltage protecting coating quality detector. It install anti-jamming intelligent chip, anti-jamming LED screen and brand new digital control circuit to make a accurately high voltage output $\pm(0.1KV+3\%$ reading) It can adjust its value of voltage according to the thickness of protecting coating. HD-105 use lithium battery for power source, it is also can be used in field. Battery can be replaced by customer themselves, useful for long time testing work in field.

Theory

When high voltage probe brushed pass non conductive coating, If the coating is too thin or metal has leakage or pinhole, the air gap will be punctured and produce spark discharge when pulse high voltage. At same time, detector will record leak number.

Application

The equipment design of HD-105 is advanced, stable and reliable, which can be widely used in chemical industry, oil, rubber and enamel, so it is an essential tool used to detect metal anti-corrosion coating quality.

Parameter

Parameter	
Test voltage range	0.6KV~30KV
Thickness range	0.05~10mm
High voltage output	Pulse
Voltage display	3 digit
Resolution	0.1KV
Voltage precision	$\pm(0.1kv+3\%)$
Max leak record	999 maximum
Way of alarming	Headphone buzzer and light
Shutdown	Auto and Manual
Display	128*64 LED screen with backlight
Power	$\leq 6W$

دستگاه هالیدتکتور (دستگاه منفیاب)

HD-105

Size	240mm*165mm*85mm
Battery	12V 4400mA
Working time	≥12 hours(Max voltage)
Charging time	≈4.5 hours
Voltage of adapter	Input AC 100-240V Output 12.6V 1A
Probe wire	Close to 1.5m
Earth lead wire	2*5m black/black
Fuse	1A



Form 1 Test voltage form

Material	Thickness (mm)	Test voltage (KV)	Note
Coal tar epoxy	0.2 0.4 0.6 0.8	4~5KV Or self setting	Follow the standard law if exist.
Petroleum Asphalt	2.3 5.5 7.9	11 15 18 20 24	
Polyethylene Tape	Basic on $3249TC=V$ formula V: voltage TC: thickness of coating Follow SY4014-92 acceptance specification		
Glass lining	Close to 8KV~20KV		

دستگاه هالیدتکتور (دستگاه منفياب)

HD-105

Other anti-corrosion material	According to voltage or the insulation performance of the material		
Note: This is for your reference only.			

Form 2 The thickness of coating and reference voltage

Thickness (um)	Voltage (KV)	Thickness (um)	Voltage (KV)
50	0.7	1250	5.5
100	1.0	1500	6.3
150	1.2	2000	8.0
200	1.5	2500	9.6
250	1.7	3000	11.1
300	2.0	3500	12.6
350	2.2	4000	14.1
400	2.4	5000	17.1
500	2.9	6000	20.1
600	3.3	8000	25.7
800	4.0	10000	30
1000	4.7		

Standard Accessory:

1. HD-105 detector
2. High voltage probe
3. Probe wire
4. Brush
5. Earth lead wire
6. Charger
7. Carry belt
8. Magnetic earthing rod
9. ABS suitcase
10. Instruction, warranty card and fuse

Optional accessory:

1. Flat brush
2. Conductive rubber brush
3. Earthing rod
4. Headphone
5. Customized outer and inner size electrode