



## Elcometer 266 DC Holiday Detector



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### At a glance:

Safer, easier & more reliable testing than ever before

Avoids coating damage by limiting current

Ideal for field, site or laboratory testing

The Elcometer 266 DC Holiday Detector provides accurate detection of pinholes, flaws, inclusions, thin spots and bubbles in a coating.

The gauge has been specifically designed to revolutionise high voltage DC testing of coatings, making it safer, easier and more reliable than previously possible.

- **Current limiting to avoid coating damage:**  
When the Elcometer 266 detects a flaw, and sparks, the current flow reduces to a low level, minimising risk to both the user & the coating.
- **Automatic voltage calculator:**  
No need for lookup tables, simply enter the coating thickness value and select the standard & the gauge will automatically set the voltage.
- **Safety hand grip:**  
Ensures that high voltage can only be generated when the handle is being held.
- **Internal jeep tester:**  
Removing the need for 2 gauges. The closed loop system with internal voltmeter guarantees the voltage output at all times.
- **Specialised handle design:**  
Extended ribbing on the handle provides an effective barrier between the high voltage and the user.
- **Rugged and waterproof to IP65:**  
Rugged, waterproof IP65 case is sealed against the elements.
- **Accurate sensitivity adjustment:**  
Allows use on metallised or slightly damp coatings.
- **Rechargeable & replaceable battery packs:**  
Battery packs can be charged inside or outside the gauge.
- **Interchangeable handles:**  
0.1–5kV, 0.1–15kV or 0.1–30kV adjustable in 0.1kV steps.

### Pinhole & Porosity Detection

Premature corrosion of a substrate is usually due to the failure of the coating. A major cause of failure is the presence of flaws in the finished coating. Collectively referred to as a coating's porosity the main types of flaw are described below:

#### Runs & Sags

The wet coating moves under gravity leaving a thin dry film.

#### Cissing

Occurs when a coating does not re-flow to cover the voids generated by air bubbles being released from the surface of the coating.

#### Cratering

Occurs when the substrate is wet or if the coating has poor flow characteristics, thus creating voids in the coating.

#### Pinholes

Caused either by air entrapment which is then released from the surface, or by the entrapment of particulates (dust, sand etc) which do not stay in place.

#### Over Coating

If too much coating is applied to a substrate, as the coating cures it can crack from internal stresses of the coating.

#### Under Coating

Areas not coated, or the coating flows away from the particular edges, corners or a substrate and welds. Furthermore over a rough surface profile, insufficient coating may leave the profile's peaks exposed.

Can be used in accordance with:	
ANSI/AWWA C 213	AS3894.1
ASTM D4787	ASTM G 6
ASTM D5162	ASTM G 62
BS1344-11	EN14430
JIS G3491	JIS G3492
ISO 2746	NACE RP0274
NACE RP 04901	NACE RP0188

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# data sheet FGJ-NDT.IR elcometer

Part Number	D266----1	D266----2	D266----3
Voltage	UK 230V	EUR 220V	US 110V
Compatible with 0.1 – 5kV handle	✓	✓	✓
Compatible with 0.1 – 15kV handle	✓	✓	✓
Compatible with 0.1 – 30kV handle	✓	✓	✓
Waterproof IP65 case	✓	✓	✓
High voltage output accuracy	±5% or ±50V below 1000 Volts		
Measured current flow accuracy	±5% of full scale		
Display resolution	100 Volts, 1µA		
Output current	0 – 100µA maximum		
Operating temperature	0°C to 50°C (32°F to 120°F)		
Power supply	Internal rechargeable lithium ion battery, fully charged within 4 hours		
Typical battery life (backlight off)	DC5: 40 hours	DC15: 20 hours	DC30: 10 hours
Typical battery life (backlight on)	DC5: 20 hours	DC15: 15 hours	DC30: 8 hours
Instrument case	High impact ABS		
Earth lead length	10m (394")		
Dimensions	520 x 370 x 125mm (20.5 x 14.5 x 5")		
Weight	Base unit (including battery pack) 1.2kg (2.7lb) Handle: 0.6kg (1.3lb)		
Packing list	<p>Elcometer 266 DC Holiday Detector, lithium battery, curly connection cable for high voltage handle, 10m (394") earth signal return lead with crocodile clip, battery charger and mains cable, band brush, shoulder strap, tough plastic carrying case, operating instructions.</p> <p><i>The Elcometer 266 DC Holiday Detector does not include the handle, select the part number for your required handle voltage from the part numbers listed below.</i></p>		

Accessories		Voltage Output Volts	Coating Thickness		
			mm	mils	
	T26620033-1	Elcometer 266 DC5 Handle	500 – 5,000	1.25	50
	T26620033-2	Elcometer 266 DC15 Handle	500 – 15,000	3.75	150
	T26620033-3	Elcometer 266 DC30 Handle	500 – 30,000	7.50	300
	T26620081	Second Hand Grip			
	T26620082	Elcometer models 236 and 136 to Elcometer 266 Adapter			
	T26620083	Models 780, 785 and 790 to Elcometer 266 Adapter			
	T26620084	Models SP, APS, AP/S1, AP/S2, 10/20 & 14/20 to Elcometer 266 Adapter			
	T26619975	Band Brush Probe			

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	T26619988-1	Probe Extension Piece		mm	inches
	T26619988-2	Probe Extension Piece		500	19.7
				1000	39
			Electrode Only	mm	inches
	T26620022-1	Right Angle Wire Brush Probe	T99926621	250	9.8
	T26620022-2	Right Angle Wire Brush Probe	T99926622	500	19.7
	T26620022-3	Right Angle Wire Brush Probe	T99926623	1000	39
	T99916996	Earth Signal Return Lead		metres	inches
				10	395
			Electrode Only	mm	inches
	T26620022-11	Right Angle Rubber Probe	T99926731	250	9.8
	T26620022-12	Right Angle Rubber Probe	T99926732	500	19.7
	T26620022-13	Right Angle Rubber Probe	T99926733	1000	39
	T26620022-14	Right Angle Rubber Probe	T99926734	1400	55
			Rolling Spring Only	Pipe Diameter	
				mm	inches
	T26620024-1	Rolling Spring Assembly	T9996197A	50	2
	T26620024-2	Rolling Spring Assembly	T9996197B	75	3
	T26620024-3	Rolling Spring Assembly	T9996197C	100	4
	T26620024-4	Rolling Spring Assembly	T9996197D	150	6
	T26620024-5	Rolling Spring Assembly	T9996197E	200	8
	T26620024-6	Rolling Spring Assembly	T9996197F	250	10
	T26620024-7	Rolling Spring Assembly	T9996197G	300	12
	T26620024-8	Rolling Spring Assembly	T9996197H	350	14
	T26620024-9	Rolling Spring Assembly	T9996197I	400	16
	T26620024-10	Rolling Spring Assembly	T9996197J	450	18
	T26620024-11	Rolling Spring Assembly	T9996197K	500	20
	T26620024-12	Rolling Spring Assembly	T9996197L	600	24
	T26620024-13	Rolling Spring Assembly	T9996197M	750	30
T26620024-14	Rolling Spring Assembly	T9996197N	1000	36	
			Electrode Only	Pipe Diameter	
				mm	Inches
	T26620071-1	Circular Brush Probe Assembly	T9993766-	38	1.5
	T26620071-2	Circular Brush Probe Assembly	T9993767-	51	2
	T26620071-3	Circular Brush Probe Assembly	T9993768-	64	2.5
	T26620071-4	Circular Brush Probe Assembly	T9993769-	76	3
	T26620071-5	Circular Brush Probe Assembly	T9993770-	89	3.5
	T26620071-6	Circular Brush Probe Assembly	T9993771-	102	4
	T26620071-7	Circular Brush Probe Assembly	T9993772-	114	4.5
	T26620071-8	Circular Brush Probe Assembly	T9993773-	127	5
	T26620071-9	Circular Brush Probe Assembly	T9993774-	152	6
	T26620071-10	Circular Brush Probe Assembly	T9993775-	203	8
	T26620071-11	Circular Brush Probe Assembly	T9993776-	254	10
T26620071-12	Circular Brush Probe Assembly	T9993777-	305	12	
Additional Accessories					
	T26619950	Rechargeable Battery Pack			
	T26619893	Curly Connecting Cable			
	T26620085	Elcometer 266 Pipe Testing Kit			