

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:**
0.5–5kV, 0.5–15kV or 0.5–30kV 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:	
AS 3894.1	ASTM D 4787
ASTM G 6	ASTM D 5162-B
ASTM G 62-B	BS 1344-11
EN 14430	ISO 2746
NACE RP0274	NACE RP0188
NACE RP0490	NACE SP 0188


Part Number	D266----1	D266----2	D266----3
Voltage	UK 230V	EUR 220V	US 110V
Compatible with 0.5 – 5kV handle	✓	✓	✓
Compatible with 0.5 – 15kV handle	✓	✓	✓
Compatible with 0.5 – 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>		

ELCOMETER 266 HANDLES					
<i>(Please select the required handle from the list below – not supplied as standard with the main instrument)</i>					
Part Number	Description	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

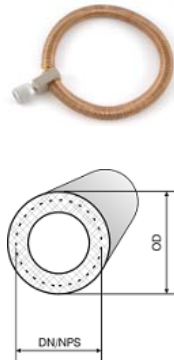
ELCOMETER 266 ADAPTORS		
<i>(Allow accessories for other holiday detectors to be used with the Elcometer 266)</i>		
Part Number	Description	
T26620082		Elcometer 236 & 136 to Elcometer 266 Adaptor
T26620083		Models P20, P40, P60, 780, 785 & 790 to Elcometer 266 Adaptor
T26620084		Models AP, APS, AP/S1, AP/S2, AP/W, 10/20, 14/20, 10, 20, 20S to Elcometer 266 Adaptor
T26620252		Models PHD 1-20 & PHD 2-40 to Elcometer 266 Adaptor





ELCOMETER 266 RIGHT ANGLE WIRE BRUSH PROBES <i>(Phosphor bronze wire brush probes - ideal for testing large, flat surfaces)</i>					
Part Number		Description	Length		
Full Assembly	Brush Only		mm	inches	
T26620022-1	T99926621		Right Angle Wire Brush Probe	250	9.8
T26620022-2	T99926622			500	19.7
T26620022-3	T99926623			1000	39

ELCOMETER 266 RIGHT ANGLE RUBBER PROBES <i>(Carbon infused rubber probes - ideal for testing large, flat surfaces with thin or delicate coatings)</i>					
Part Number		Description	Length		
Full Assembly	Rubber Only		mm	inches	
T26620022-11	T99926731		Right Angle Rubber Probe	250	9.8
T26620022-12	T99926732			500	19.7
T26620022-13	T99926733			1000	39
T26620022-14	T99926734			1400	55

ELCOMETER 266 CIRCULAR BRUSH PROBES <i>(Designed specifically to measure the internal diameter of pipes)</i>					
Part Number		Description	Internal Pipe Diameter		
Full Assembly	Brush Only		mm	inches	
T26620071-1	T9993766-		Circular Brush Probe	38	1.5
T26620071-2	T9993767-			51	2
T26620071-3	T9993768-			64	2.5
T26620071-4	T9993769-			76	3
T26620071-5	T9993770-			89	3.5
T26620071-6	T9993771-			102	4
T26620071-7	T9993772-			114	4.5
T26620071-8	T9993773-			127	5
T26620071-9	T9993774-			152	6
T26620071-10	T9993775-			203	8
T26620071-11	T9993776-			254	10
T26620071-12	T9993777-			305	12

ELCOMETER 266 EXTERNAL PIPE ROLLING SPRINGS						
<i>(Designed specifically to measure the external diameter of pipes)</i>						
Part Number	Nominal Pipe Size		Pipe External Diameter			
	DN (mm)	NPS (inches)	Min (mm)	Max (mm)	Min (inches)	Max (inches)
T26620086	Elcometer 266 Rolling Spring Holder <i>(Select the appropriate spring diameter required from the list below)</i>					
T99920438-15A	40	1.5	48	54	1.9	2.1
T99920438-15B	40	1.5	54	60	2.1	2.4
T99920438-20A	50	2	60	66	2.4	2.6
T99920438-20B	50	2	66	73	2.6	2.9
T99920438-25A	65	2.5	73	80	2.9	3.1
T99920438-25B	65	2.5	80	88	3.1	3.5
T99920438-30A	80	3	88	95	3.5	3.7
T99920438-30B	80	3	95	100	3.7	3.9
T99920438-35A	90	3.5	100	108	3.9	4.3
T99920438-35B	90	3.5	108	114	4.3	4.5
T99920438-40A	100	4	114	125	4.5	4.9
T99920438-45A	114	4.5	125	136	4.9	5.4
T99920438-45B	114	4.5	136	141	5.4	5.6
T99920438-50A	125	5	141	155	5.6	6.1
T99920438-50B	125	5	155	168	6.1	6.6
T99920438-60A	152	6	168	180	6.6	7.1
T99920438-60B	152	6	180	193	7.1	7.6
T99920438-70A	178	7	193	213	7.6	8.4
T99920438-70B	178	7	213	219	8.4	8.6
T99920438-80A	203	8	219	240	8.6	9.4
T99920438-90A	229	9	240	264	9.4	10.4
T99920438-100A	254	10	264	290	10.4	11.4
T99920438-110A	279	11	290	320	11.4	12.6
T99920438-120A	305	12	320	350	12.6	13.8
T99920438-140A	356	14	350	375	13.8	14.8
T99920438-140B	356	14	375	400	14.8	15.7
T99920438-160A	406	16	400	435	15.7	17.1
T99920438-160B	406	16	435	450	17.1	17.7
T99920438-180A	457	18	450	500	17.7	19.7
T99920438-200A	508	20	500	550	19.7	21.7
T99920438-220A	559	22	550	600	21.7	23.6
T99920438-240A	610	24	600	650	23.6	25.6
T99920438-260A	660	26	650	700	25.6	27.6
T99920438-280A	711	28	700	750	27.6	29.5
T99920438-300A	762	30	750	810	29.5	31.9
T99920438-320A	813	32	810	860	31.9	33.9
T99920438-340A	864	34	860	910	33.9	35.8
T99920438-360A	914	36	910	960	35.8	37.8
T99920438-380A	965	38	960	1010	37.8	39.8
T99920438-400A	1016	40	1010	1060	39.8	41.7
T99920438-420A	1067	42	1060	1110	41.7	43.7
T99920438-440A	1118	44	1110	1160	43.7	45.7
T99920438-460A	1168	46	1160	1210	45.7	47.6
T99920438-480A	1219	48	1210	1270	47.6	50.0
T99920438-500A	1270	50	1270	1320	50.0	52.0
T99920438-520A	1321	52	1320	1370	52.0	53.9
T99920438-540A	1372	54	1370	1425	53.9	56.1



MISCELLANEOUS SPARES & ACCESSORIES		
Part Number	Description	
T26620081		Second Hand Grip
T26619975		Band Brush Probe
T26619988-1		Probe Extension Piece: 500mm (19.7")
T26619988-2		Probe Extension Piece: 1000mm (39")
T99916996		Earth Signal Return Lead: 10m (395")
T26619950	Rechargeable Battery Pack	
T26619893	Curly Connecting Cable	
T26620085	Elcometer 266 Pipe Testing Kit	

Related Products



Elcometer 270

Elcometer 270 Pinhole Detector:

Utilising the wet sponge technique, the Elcometer 270 range has been designed to set a new standard for wet sponge detectors – a high quality, low voltage detector with similar accessories to a high voltage spark tester.



Elcometer 236

Elcometer 236 DC Holiday Detector:

This instrument performs high voltage testing to detect pits, holes, flaws etc in coatings.



Elcometer 260

Elcometer 260 Surefire® Fluorescencator UV Pinhole Flashlight:

Designed to provide a quick, low cost method of testing coatings for pinholes.

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