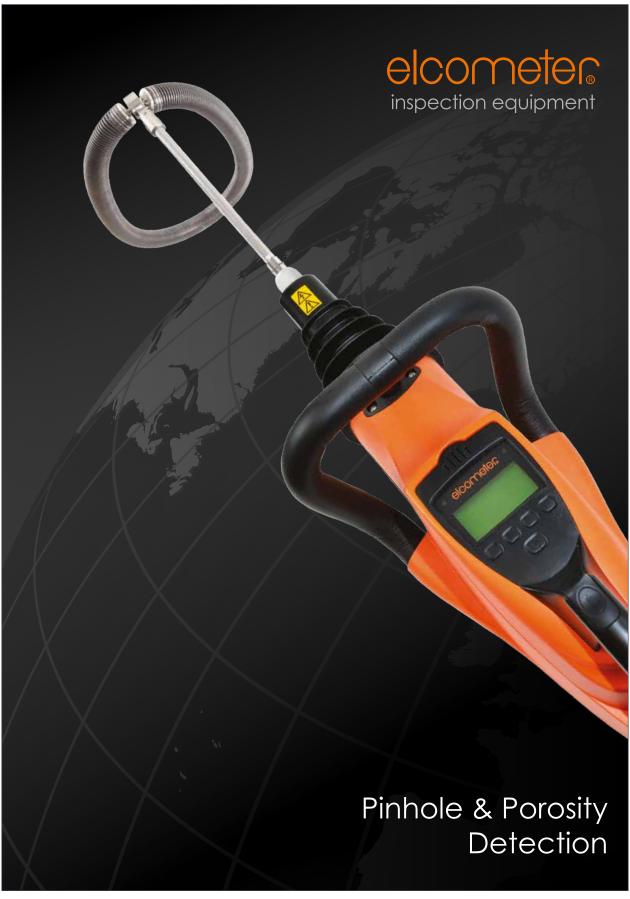


# 270 Pinhole Detector



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Premature corrosion of a substrate is usually due to a coating failure. A major cause is the presence of flaws in the finished coating.

Collectively referred to as porosity, the main types of flaws are:

Runs & Sags: Coatings move under gravity leaving a thin dry film.

**Cissing:** When a coating does not re-flow to cover the voids generated by air bubbles being released from the surface of a coating.

**Cratering:** If the substrate is wet or the coating has poor flow characteristics, voids are created in the coating.

**Pinholes:** Caused 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, as it cures internal stresses of the coating can cause it to crack.

**Under Coating:** Uncoated areas, or where the coating flows away from edges or corners of a substrate or welds. Insufficient coating over a rough surface profile may also leave the peaks of the profile exposed.

There are essentially, three flaw detection methods in our range:

Wet Sponge Technique: A low voltage is applied to a moist sponge. When the sponge moves over a coating flaw, liquid penetrates to the substrate and completes an electrical circuit, setting off the alarm. The wet sponge technique is suitable for measuring insulating coatings less than  $500\mu m$  (20mils) on conductive substrates, and is ideal for powder coatings and other coatings where the user does not wish to damage the coating.

**High Voltage Technique:** The high voltage, or porosity technique, can be used to test coatings up to 25mm (1") thick and is ideal for inspecting pipelines and other protective coatings. Coatings on concrete can also be tested using this method.

A power supply generates a high voltage DC or pulsed DC to a probe. As the probe passes over a flaw, a spark at the contact point sets off the alarm. This technique is suitable for locating the types of flaws described above, although care is required on thin coatings.

**UV Pinhole Detection:** UV light can be used as a low cost, quick method of detecting pinholes in coatings. A base coat containing a UV fluorescing additive is applied. When the UV flashlight shines on the coating, areas where the base coat is not covered fluoresce, identifying the location of the pinhole.



### **Elcometer 270**

## **Pinhole Detector**

#### STANDARDS:

AS 3894.2, ASTM D 5162-A, ASTM G6, ASTM G62-A, BS 7793-2, ISO 8289-A, ISO 14654, JIS K 6766, NACE RP 0188, NACE SP 0188, NACE TM0384 The Elcometer 270 range utilises the wet sponge technique and sets the standard for wet sponge detectors - high quality, low voltage detectors with a wide range of accessories to meet your requirements.





#### **Pinhole Detector Elcometer 270**

#### Accessories



Standard wand

A universal flat sponge to suit almost all applications

Spare flat sponge set Pack of 3 sponges;

T27016867

T27018050

inspection

Roller sponge wand Ideal for large flat surface

Spare roller sponge

T27018051

T27016960



Telescopic wand adaptor

with belt clip - extends to 1m(39"), ideal for floors or high areas

Separate wand adaptor

with belt clip - converts the gauge into a separate pinhole detector

T27016998

T27016999

T27018191



Extension piece

420mm (16.5") extensions to expand operators reach. Additional extension pieces can be connected to each other

T27016965

T99916954

T99916996



Pinhole Inspector's Kit

The complete pinhole detection kit. Each kit is supplied with:

- 1 x separate wand handle & lead
- 1 x roller wand
- 1 x 10m (32') signal return cable
- 2 x extension pieces 1 x telescopic extension
- 1 x belt clip
- 1 x bottle of wetting agent
- 3 x AA batteries



Return cable - 4m (13')

supplied as standard, complete with crocodile clip and connection plug

Return cable - 10m (32')

supplied on a drum, complete with clip and connection plug





50ml (1.7floz) bottle - helps aid the fast detection of pinholes. Just add to the water used to dampen the sponge

T27018024



# Technical Specification Model

Model	Elcometer 270/3	Elcometer 270/4	Certificate
Part Number	D2703	D2704	
Part Number with Certificate	D2703C	D2704C	•
Voltage	9V and 90V	9V, 67.5V and 90V	
Coating Range (Max)	500μm (20mils)	500μm (20mils)	
Sensitivity	9V: 90kΩ ±5% 90V: 400kΩ ±5%		
Battery Life (continuous use)	9V: up to 200 hours 90V: up to 80 hours	9V: up to 200 hours 67.5V: up to 100 hours	

	90V: up to 80 hours
Battery Type	3 x AA batteries (rechargeable batteries can also be used, battery life will be reduced by up to 75%)
Accuracy of Setting	±5%
Dimensions	Without wand 210 x 42 x 37mm (8.3 x 1.7 x 1.5")
	Standard wand 175mm (6.9") long (including sponge)
Weight	610g (21oz) including wand, cable and batteries
Packing List	Pinhole Detector, standard wand and flat sponge, 4m (13' 2") return lead with crocodile clip, 3 x AA (LR1600) batteries and operating instructions

Calibration Certificate supplied as standard.

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### **Elcometer 280**

#### STANDARDS:

AS 3894.1, ANSI/AWWA C203, ANSI/AWWA C214, ASTM D4787, ASTM D5162, ISO 2746, ISO 29601, JIS G 3491, JIS G 3492, NACE RP0274, NACE SP0188, NACE SP0490, NACE TM0186, NACE TM0384

### **Pulsed DC Holiday Detector**

The Elcometer 280 is a 'stick type' holiday detector which has been designed to make pulsed DC high voltage holiday detection safer, easier and more reliable than ever before.

Using state of the art electronics, the Elcometer 280 allows users to inspect coatings - without connecting the earth return lead to the component substrate, ideal for inspecting large surfaces and pipelines.

> Flashing display, bright LED and a user adjustable volume alarm indicates detection of a holiday



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## **Pulsed DC Holiday Detector**

### **Elcometer 280**

A wide range of interchangeable probe accessories available - compatible with all Elcometer holiday detectors



Ideal for testing clean, damp, dirty or slightly conductive coatings

Voltage calculator automatically sets the correct voltage from your coating thickness value

Internal jeep tester ensures that the selected voltage equals the test voltage

The Elcometer 280 uses the high voltage pulsed DC technique to detect holidays in coatings - even if the coating is damp, dirty or slightly conductive.

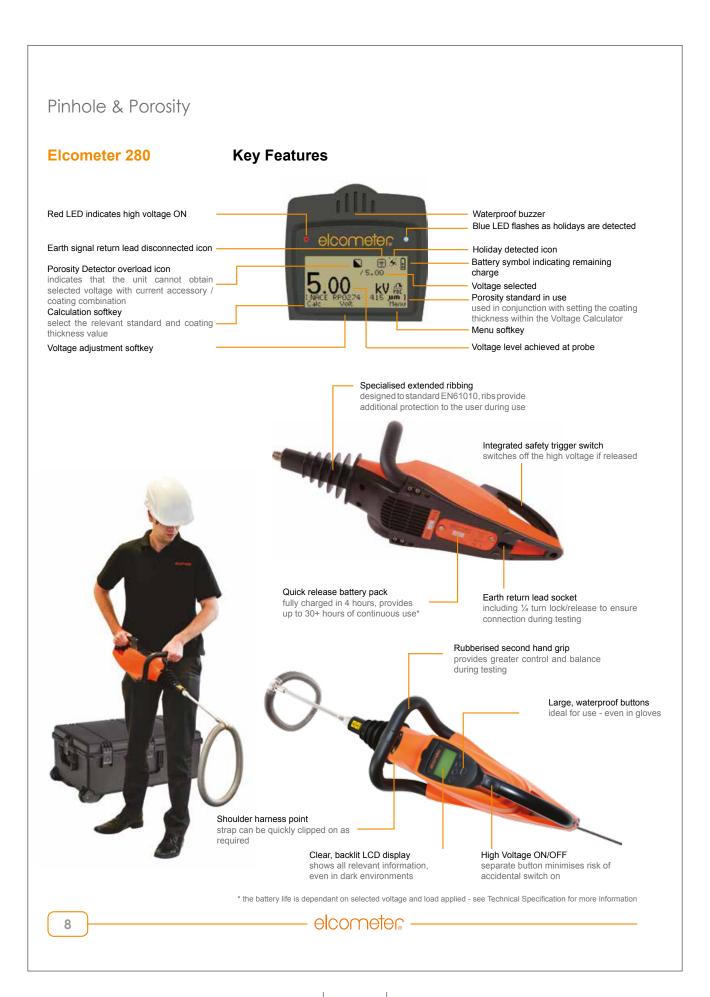
From the two stage safety switch, bright LED's and screen icons signifying when the high voltage is on, to the extended ribbing to protect the user from spark creep, the Elcometer 280 sets the standard for high voltage measurement safety.

Using the wide range of probe accessories users can detect porosity/holidays in coatings up to 25mm (1") thick.

Rugged, shockproof and water resistant, each unit is designed for use even in the harshest of environments.

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# **Pulsed DC Holiday Detector**

### Elcometer 280

Technical Specification				С
Description		Model S	Model T	Certifcate
Elcometer 280 Pulsed DC Holiday	/ Detector Inspection Kit	D280-S-KIT	D280-T-KIT	0
Elcometer 280 Pulsed DC Holiday	/ Detector	D280-S	D280-T	0
Rugged, Shockproof & Water Res	sistant			
Integrated Safety Trigger Switch				
Quick Release Battery Pack				
Internal Jeep Tester				
Integrated Voltage Calculator				
Pulsed DC High Voltage Range	0.5kV - 35kV			
Voltage Adjustment	User adjustable: 0.5 - 1kV:	10 Volt steps, 1 - 35kV: 100	V steps	
High Voltage Output Accuracy	±5% or ±50V below 1000 V	olts /		
Pulse Repetition Rate	~30Hz			
Operating Temperature	0°C to 50°C (32°F to 120°F	·)		
Power Supply	Rechargeable battery Pack	; Battery fully charged within	n 4 hours	
Typical Battery Life	12" (DN305) Rolling Spring	oon selected voltage and loa : 30 hours at 10kV; 12 hours g: 22 hours at 10kV; 8 hou	s at 35kV	
Instrument Case Dimensions	PC ABS case; (I x w x h): 6	03 x 219 x 193mm (23.7 x 8	3.6 x 7.6")	
Weight (no probes attached)	3.0kg (6.6lb) - including ba	ttery pack		
Packing List	UK, EUR, US and AUS plug Elcometer 280 Pulsed DC Gauge (Model S or T), 5m Model T), battery charger w (supplied with Model T only	Holiday Detector (16') trailing signal return legs, shoulder strap and operate Holiday Detector Inspective (16') trailing signal return leavith UK, EUR, US and AUS (20), 250mm (9.8") probe extended the weight, rugged, wheeled	ating instructions ion Kit ad, battery pack (2 supplie plugs, stainless steel rollin nsion shaft, shoulder strap	d with g spring holde and operating

#### Accessories

Light weight, rugged, wheeled transit case - ideal for gauge transportation, with additional space to house up to 20m (66') of phosphor bronze or 6m (30') of stainless steel rolling spring

T28022769

Grounding mats are ideal for testing on ungrounded pipes. The conductive rubber mat is wrapped around the coated pipe and connected to both the grounding pin (supplied separately) and the signal return lead.

T28022637-1
T28022637-2
T28022637-3
T28022637-4
T28022748
T28022622
T28022749
T28022750

For a full range of rolling springs, rubber or wire brush probes and other accessories see page 14



Optional Calibration Certificate available.

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### Elcometer 266

#### STANDARDS:

ANSI/AWWA C213, AS 3894.1, ASTM C 536, ASTM C 537 ASTM D 4787, ASTM D 5162-B, ASTM G 62-B, BS1344-11 DIN 55670, EN 14430, ISO 2746, ISO 29601, JIS K 6766, NACE RP0274, NACE RP0188, NACE RP0190, NACE RP0490,

### **Holiday Detector**

The Elcometer 266 revolutionises High Voltage DC testing of coatings porosity detection making it safer, easier and more reliable than ever before.

Voltage calculator automatically sets the correct voltage from your coating

Adjustable Voltage: 0.5kV - 1kV in 50V steps 1kV to 30kV in 100V steps







For a full range of rolling springs, rubber or wire brush probes and other accessories see page 14

Dual safety switch on handle to avoid accidental switch on (Grey/orange

probe handles only)

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#### **Key Features** Elcometer 266



#### Interchangeable DC probe handles\*\*

Part Number T26620033-1 T26620033-2 T26620033-3 T26620033-4

Description DC5 (0.5 - 5kV) DC15 (0.5 - 15kV) DC30 (0.5 - 30kV) DC30S (0.5 - 30kV)



#### Integrated voltage calculator

Enter the test standard & the coating thickness then the gauge will automatically programme the correct voltage



#### Testing has never been safer

Ribbing provides additional user protection - specifically designed to meet EN 61010



#### Second hand grip is available

Ideal for testing pipes and tank floors with 2 hands - without compromising safety

Part Number T26620081

Description Second Hand Grip



#### Removeable, quick charge batteries

Fully charge the battery pack in 4 hours, within the gauge or separately, for up to 40 hours of continuous testing

Part Number T99923482

Description Rechargeable lithium ion battery pack



#### Universal probe adaptors

Enables the Elcometer 266 to work with all major holiday detector's accessories. For the complete range of adaptors see page 14

Technical Specification	С
Description	Part Number <sup>‡</sup> Certificate
Elcometer 266*	D2664 o
High Voltage Output Accuracy	±5% or ±50V below 1000 Volts
Operating Temperature	0°C to 50°C (32°F to 120°F)
Power Supply	Rechargeable battery Pack; battery fully charged within 4 hours
Measured Current Flow Accuracy	±5% of full scale; 0 - 100μA maximum Output Current
Typical Battery Life - Backlight Off (On)	DC5: 40 (20) hours DC15: 20 (15) hours DC30: 10 (8) hours
Instrument Case Dimensions	Waterproof, ABS case; 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	Elcometer 266 DC Holiday Detector, battery pack, curly connection cable for high voltage handle, 10m (32') signal return lead, battery charger with UK, EUR, US and AUS plugs, band brush, shoulder strap, tough plastic carry case and operating instructions

Probe Handles			C
Part Number	Description	Voltage Range	Certificate
T26620033-1	Elcometer 266 Probe Handle Voltage***	DC5 (0.5 - 5kV)	0
T26620033-1C	Elcometer 266 Probe Handle Certified***	DC5 (0.5 - 5kV)	
T26620033-2	Elcometer 266 Probe Handle Voltage***	DC15 (0.5 - 15kV)	0
T26620033-2C	Elcometer 266 Probe Handle Certified***	DC15 (0.5 - 15kV)	
T26620033-3	Elcometer 266 Probe Handle Voltage***	DC30 (0.5 - 30kV)	0
T26620033-3C	Elcometer 266 Probe Handle Certified***	DC30 (0.5 - 30kV)	
T26620033-4	Elcometer 266 Probe Handle Voltage*** (Continuous Voltage)	DC30S (0.5 - 30kV)	0
T26620033-4C	Elcometer 266 Probe Handle Certified*** (Continuous Voltage)	DC30S (0.5 - 30kV)	
T26620081	Second Hand Grip	DC5 (0.5 - 5kV)	

- † The Elcometer 266 does not include the probe handle; please select the required handle from the list above.

  † The Elcometer 266 main instrument is supplied with a one year warranty against manufacturing defects. The warranty can be extended to two years via www.elcometer.com

  † Probe handles are supplied with a one warranty against manufacturing defects.

  Optional Calibration Certificate available.

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### **Elcometer 236**

#### STANDARDS:

ANSI/AWWA C213, AS 3894.1, ASTM C 536, ASTM C 537, ASTM D 4787, ASTM D 5162-B, ASTM G 62-B, BS1344-11, DIN 55670, EN 14430, ISO 2746, ISO 29601, JIS K 6766, NACE RP0274, NACE RP0490, NACE RP0190, NACE RP0490,

# **Holiday Detector**

The Elcometer 236 Holiday Detector provides high voltage porosity testing to detect pits, flaws, holes, etc. in a wide variety of non-metallic coatings.

Standard and telescopic handles available for hard to reach areas

Available in 2 versions; 15 and 30kV; fully adjustable in 100 Volt steps

| Adjustable sensitivity allows use on partially conductive surfaces |
| Adjustable sensitivity allows use on partially conductive surfaces |
| A wide range of probe brushes and springs available |

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# **Holiday Detector**

### Elcometer 236

The Elcometer 236 provides the user with complete control of voltage and sensitivity settings and is available in 2 versions, 15kV and 30kV.

Each unit is supplied in a convenient carry case which also holds the probe handle and an additional (optional) external re-chargeable battery pack which doubles the testing time available.

Due to its unique design, the probe handle can be replaced with a telescopic probe handle - extending the measurement reach up to almost 4m (13'), ideal for testing on large/high structures.



Technical Specification			C
	Elcometer 236 15kV	Elcometer 236 30kV	Certificate
Part Number	D23615KV	D23630KV	0
Part Number with Certificate	D23615KVC	D23630KVC	•
Voltage Output	0.5 - 15kV in 100V steps	0.5 - 30kV in 100V steps	
Display Resolution	0.01kV	0.1kV	
Approximate Thickness Range	0 - 3.75mm (0 - 150mils)	0 - 7.5mm (0 - 300mils)	
Alarms	Audible & Visual		
Power Supply	12V internal rechargeable batt	ery	
Battery Life (approximate)	10/12 hours continuous use, 2	20/24 hours with the optional externa	al battery pack
Dimensions	200 x 170 x 70mm (6 x 7 x 3")		
Weight	2.8kg (6lb 3oz)		
Packing List	7.1	and lead, band brush probe, 2m (79° cry charger with 3 mains cables (UK, perating instructions	, ,

Accessories	
T23622790-1	Telescopic probe handle, 600 - 1200mm (24 - 47")
T23622790-2	Telescopic probe handle, 1800 - 3600mm (71 - 142")
T236139031	2m (6.5') earth signal return lead
T236139032	10m (32') earth signal return lead
T23615550	External battery pack (doubles operational use between charges)

For a full range of rolling springs, rubber or wire brush probes and other accessories see page 14



Optional Calibration Certificate available.

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# Elcometer 236, 266 & 280 High Voltage Holiday Detector Accessories

### Batteries, Chargers & Earth Signal Return Leads

	Part Number	Number Description		Compatible v	
			Elcometer 236	Elcometer 266	Elcometer 280
	T23615550	External rechargeable battery pack			
	T23613907	Battery charger & mains lead (UK 240V)			
	T23613908	Battery charger & mains lead (EU 220V)			
	T23613909	Battery charger & mains lead (US 110V)			
	T99923482	Rechargeable battery pack			
	T99919999	Battery Charger with UK, EUR, US and AUS plugs			



T236139031	Earth signal return lead, 2m (6.5')		
T236139032	Earth signal return lead, 10m (32')		
T99916954	Earth signal return lead, 4m (13')		
T99916996	Earth signal return lead, 10m (32')		
T28022750	10m (32') earth lead, clip / Elcometer 280 connector		
T28022622	Trailing signal return lead, 5m (16')		

### Telescopic Probes, Probe Extension Rods



T23622790-1	Telescopic probe handle, 0.6 - 1.20m (24 - 47")		
T23622790-2	Telescopic probe handle, 1.8 - 3.60m (71 - 142")		
T99919988-3	Probe extension rod, 250mm (9.8")		
T99919988-1	Probe extension rod, 500mm (20")		
T99919988-2	Probe extension rod, 1000mm (39")		

#### Accessory Adaptors Allows other manufacturer's accessories to fit Elcometer models



T99920084	Adaptor for models: AP, APS, AP/S1, AP/S2, AP/W, 10/20, 14/20,10, 20 & 20S		
T99920083	Adaptor for models: P20, P40, P60, 780, 785 & 790		
T99920252	Adaptor for models: PHD 1-20 & PHD 2-40		
T99922747	Adaptor for models: 4S, 4.0, 8.0, 35		
T99920082	Adaptor for current range to fit old accessories		
T99922768	Adaptor for Elcometer 136 and older 236 models		

### Band brush probes



T99919975	Band brush probe		-
T99922751	Phosphor bronze brush probe		

□ Older Elcometer 236 models may require adaptor piece T99922768

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Compatible with

### **High Voltage Holiday Detector Accessories**

Part Number Description

# Elcometer 236, 266 & 280

Wire Brush Probes, flat brush, internal and external pipe brush probes

					Elcometer 236	Elcometer 266	Elcometer 280
			Widtl	n			
	T99920022-1	Right angled wire brush probe	0.25m	9.8"			
	T99920022-2	Right angled wire brush probe	0.50m	19.7"			
9	T99920022-3	Right angled wire brush probe	1.00m	39"			
	T99926621	Spare wire brush electrode	0.25m	9.8"			
4	T99926622	Spare wire brush electrode	0.50m	19.7"			
	T99926623	Spare wire brush electrode	1.00m	39"			



		Diame	eter			
T99920071-1	Internal circular wire pipe brush probe	38mm	1.5"			
T99920071-2	Internal circular wire pipe brush probe	51mm	2.0"			
T99920071-3	Internal circular wire pipe brush probe	64mm	2.5"			
T99920071-4	Internal circular wire pipe brush probe	76mm	3.0"			
T99920071-5	Internal circular wire pipe brush probe	89mm	3.5"			
T99920071-6	Internal circular wire pipe brush probe	102mm	4.0"			
T99920071-7	Internal circular wire pipe brush probe	114mm	4.5"			-
T99920071-8	Internal circular wire pipe brush probe	127mm	5.0"			
T99920071-9	Internal circular wire pipe brush probe	152mm	6.0"			
T99920071-10	Internal circular wire pipe brush probe	203mm	8.0"			-
T99920071-11	Internal circular wire pipe brush probe	254mm	10"			-
T99920071-12	Internal circular wire pipe brush probe	305mm	12"			-
T99920071-13	Internal circular wire pipe brush probe	356mm	14"			
T99920071-14	Internal circular wire pipe brush probe	406mm	16"			-
T99920071-15	Internal circular wire pipe brush probe	508mm	20"			
T99920071-16	Internal circular wire pipe brush probe	610mm	24"		-	
T9993766-	Spare circular wire brush electrode	38mm	1.5"			-
T9993767-	Spare circular wire brush electrode	51mm	2.0"			
T9993768-	Spare circular wire brush electrode	64mm	2.5"	-	-	-
T9993769-	Spare circular wire brush electrode	76mm	3.0"			-
T9993770-	Spare circular wire brush electrode	89mm	3.5"			
T9993771-	Spare circular wire brush electrode	102mm	4.0"			-
T9993772-	Spare circular wire brush electrode	114mm	4.5"			
T9993773-	Spare circular wire brush electrode	127mm	5.0"	-	-	
T9993774-	Spare circular wire brush electrode	152mm	6.0"	-	-	-
T9993775-	Spare circular wire brush electrode	203mm	8.0"			
T9993776-	Spare circular wire brush electrode	254mm	10"	-		-
T9993777-	Spare circular wire brush electrode	305mm	12"			-
T9993778-	Spare circular wire brush electrode	356mm	14"			
T9993779-	Spare circular wire brush electrode	406mm	16"	-		-
T9993780-	Spare circular wire brush electrode	508mm	20"			
T9993781-	Spare circular wire brush electrode	610mm	24"	-	-	

 $\hfill\Box$  Older Elcometer 236 models may require adaptor piece T99922768

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# Elcometer 236, 266 & 280 High Voltage Holiday Detector Accessories

### Wire Brush Probes, band brush, flat brush, internal and external pipe brush probes



Part Number	Description	Compatible with		
		Elcometer 236	Elcometer 266	Elcometer 280
T99922752	'C-type' wire brush holder <sup>†</sup> (order C-type brush from the list below)		•	•
T99922907	'C-type' wire brush support handle*			

Outside Diameter (OD)



		DN	NPS			
T99922745-1	External 'C-type' wire brush	150 - 250mm	6 - 9"		-	
T99922745-2	External 'C-type' wire brush	250 - 350mm	9 - 12"	-	-	
T99922745-3	External 'C-type' wire brush	350 - 450mm	12 - 16"			
T99922745-4	External 'C-type' wire brush	450 - 550mm	16 - 20"	-	-	
T99922745-5	External 'C-type' wire brush	550 - 650mm	20 - 24"		-	-
T99922745-6	External 'C-type' wire brush	650 - 750mm	24 - 28"		-	
T99922745-7	External 'C-type' wire brush	750 - 850mm	28 - 32"			
T99922745-8	External 'C-type' wire brush	850 - 950mm	32 - 36"		-	-
T99922745-9	External 'C-type' wire brush	950 - 1050mm	36 - 40"			
T99922745-10	External 'C-type' wire brush	1050 - 1150mm	40 - 44"		-	

### Conductive Rubber Probes



		Widt	th			
T99920022-11	Right angled rubber probe	250mm	9.8"			
T99920022-12	Right angled rubber probe	500mm	19.7"			
T99920022-13	Right angled rubber probe	1000mm	39"		-	
T99920022-14	Right angled rubber probe	1400mm	55"			-
T99926731	Spare rubber electrode	250mm	9.8"	-	-	
T99926732	Spare rubber electrode	500mm	19.7"	-		-
T99926733	Spare rubber electrode	1000mm	39"			
T99926734	Spare rubber electrode	1400mm	55"	-		

### Rolling Springs Holders

T99920086	Phosphor bronze rolling spring holder Order the relevant phosphor bronze spring(s) from the list on page 17	•	•
T99922746	Stainless steel rolling spring holder Order the relevant stainless steel spring(s) from the list on page 17	•	•

<sup>□</sup> Older Elcometer 236 models may require adaptor piece T99922768

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<sup>†</sup> Wire brush holder supplied separately (T99922752)

\* Wire brush support handle ideal for two handed use or second person for large diameters



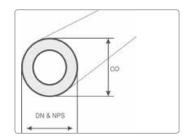
### **High Voltage Holiday Detector Accessories**

Elcometer 236, 266 & 280

Rolling Springs Available in phosphor bronze or stainless steel

Each spring is supplied with an easy-release coupling piece, allowing users to quickly connect and disconnect the rolling spring from stanchions, pillars, etc.

Please note that rolling springs are not supplied with a spring holder. Please order the appropriate rolling spring holder separately.







Rolling springs are available in 2 versions, phosphor bronze round spring and 304 stainless steel box section spring. The 19mm (0.75") diameter phosphor bronze springs are almost 3 times lighter than the 34mm (1.33") diameter stainless steel springs.

Rolling Spring Dimensions		Nominal Pipe Size			Pipe Outside Diameter (OD)			
Part Number		DN	NPS	millimete	ers (mm)	inche	es (")	
Phosphor Bronze	Stainless Steel	(mm)	(inches)	min OD	max OD	min OD	max OD	
T99920438-15A T99920438-15B		40	1.5	48 54	54 60	1.9 2.1	2.1 2.4	
T99920438-20A T99920438-20B		50	2.0	60 66	66 73	2.4 2.6	2.6 2.9	
T99920438-25A T99920438-25B	T99922744-25A T99922744-25B	65	2.5	73 80	80 88	2.9 3.1	3.1 3.5	
T99920438-30A T99920438-30B	T99922744-30A T99922744-30B	80	3.0	88 95	95 100	3.5 3.7	3.7 3.9	
T99920438-35A T99920438-35B	T99922744-35A T99922744-35B	90	3.5	100 108	108 114	3.9 4.3	4.3 4.5	
T99920438-40A	T99922744-40A	100	4.0	114	125	4.5	4.9	
T99920438-45A T99920438-45B	T99922744-45A T99922744-45B	114	4.5	125 136	136 141	4.9 5.4	5.4 5.6	
T99920438-50A T99920438-50B	T99922744-50A T99922744-50B	125	5.0	141 155	155 168	5.6 6.1	6.1 6.6	
T99920438-60A T99920438-60B	T99922744-60A T99922744-60B	152	6.0	168 180	180 193	6.6 7.1	7.1 7.6	
T99920438-70A T99920438-70B	T99922744-70A T99922744-70B	178	7.0	193 213	213 219	7.6 8.4	8.4 8.6	
T99920438-80A	T99922744-80A	203	8.0	219	240	8.6	9.4	
T99920438-90A	T99922744-90A	229	9.0	240	264	9.4	10.4	
T99920438-100A	T99922744-100A	254	10.0	264	290	10.4	11.4	
T99920438-110A	T99922744-110A	279	11.0	290	320	11.4	12.6	
T99920438-120A	T99922744-120A	305	12.0	320	350	12.6	13.8	
T99920438-140A T99920438-140B	T99922744-140A T99922744-140B	356	14.0	350 375	375 400	13.8 14.8	14.8 15.7	

 $\hfill\Box$  Older Elcometer 236 models may require adaptor piece T99922768

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### Elcometer 236, 266 & 280 High Voltage Holiday Detector Accessories

Rolling Springs Available in phosphor bronze or stainless steel





Rolling springs are available in 2 versions, phosphor bronze round spring and 304 stainless steel box section spring. The 19mm (0.75") diameter phosphor bronze springs are almost 3 times lighter than the 34mm (1.33") diameter stainless steel springs.

Rolling Spring Din	nensions	Nomina	l Pipe Size	e Pipe Outside Diameter (OI		Diameter (OD)	DD)	
Part Number		DN	NPS	millimeters (mm)		inche	es (")	
Phosphor Bronze	Stainless Steel	(mm)	(inches)	min OD	max OD	min OD	max OD	
T99920438-160A T99920438-160B	T99922744-160A T99922744-160B	406	16.0	400 435	435 450	15.7 17.1	17.1 17.7	
T99920438-180A	T99922744-180A	457	18.0	450	500	17.7	19.7	
T99920438-200A	T99922744-200A	508	20.0	500	550	19.7	21.7	
T99920438-220A	T99922744-220A	559	22.0	550	600	21.7	23.6	
T99920438-240A	T99922744-240A	610	24.0	600	650	23.6	25.6	
T99920438-260A	T99922744-260A	660	26.0	650	700	25.6	27.6	
T99920438-280A	T99922744-280A	711	28.0	700	750	27.6	29.5	
T99920438-300A	T99922744-300A	762	30.0	750	810	29.5	31.9	
T99920438-320A	T99922744-320A	813	32.0	810	860	31.9	33.9	
T99920438-340A	T99922744-340A	864	34.0	860	910	33.9	35.8	
T99920438-360A	T99922744-360A	914	36.0	910	960	35.8	37.8	
T99920438-380A	T99922744-380A	965	38.0	960	1010	37.8	39.8	
T99920438-400A	T99922744-400A	1016	40.0	1010	1060	39.8	41.7	
T99920438-420A	T99922744-420A	1067	42.0	1060	1110	41.7	43.7	
T99920438-440A	T99922744-440A	1118	44.0	1110	1160	43.7	45.7	
T99920438-460A	T99922744-460A	1168	46.0	1160	1210	45.7	47.6	
T99920438-480A	T99922744-480A	1219	48.0	1210	1270	47.6	50.0	
T99920438-500A	T99922744-500A	1270	50.0	1270	1320	50.0	52.0	
T99920438-520A	T99922744-520A	1321	52.0	1320	1370	52.0	53.9	
T99920438-540A	T99922744-540A	1372	54.0	1370	1425	53.9	56.1	

Other sizes are available upon request. Please contact your nearest distributor for more information.

### Grounding Mats

Grounding mats are ideal for testing on ungrounded pipes. The conductive rubber mat is wrapped around the coated pipe and connected to both the grounding pin (supplied separately) and the signal return lead.



Part Number	Description	Outside Diameter (O			Compatible with		
		DN	NPS	Elcometer 236	Elcometer 266	Elcometer 280	
T28022637-1	Grounding Mat	up to 229mm	up to 9"			-	
T28022637-2	Grounding Mat	up to 457mm	up to 18"				
T28022637-3	Grounding Mat	up to 762mm	up to 30"				
T28022637-4	Grounding Mat	up to 1067mm	up to 42"			-	
T28022748	8 Grounding pin; 60cm (23.5") long					-	
T28022749	10m (32') earth lead, clips each end					-	
T28022750	10m (32') earth lead, clip / Elcometer 280 connecto					-	

<sup>□</sup> Older Elcometer 236 models may require adaptor piece T99922768

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# **UV Pinhole Flashlight**

### Elcometer 260

The Elcometer 260 UV Pinhole Flashlight is battery powered and housed in a rugged aluminium case providing a quick, low cost method of testing coatings for pinholes.

Featuring a single Watt purple light emitting diode, the Elcometer 260 UV flashlight has a beam wavelength of 405nm (±5nm), which the human eye perceives as a purple light.

A UV reflective additive is applied to the base coat. The UV flashlight shines the purple light on the coating, the base coat fluoresces where it is not covered by any subsequent coating - identifying any pinholes in the top coat.







STANDARDS: ASTM E2501

Technical	Specification
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Part Number	D2602
Beam Wavelength	405nm ±5nm
Flashlight Casing	Hard anodised aluminium
Battery Life	6 hours (continuous use)
Battery Type	2 x CR123A batteries
Lens Type	Dual element diffuser
Weight	173g (6.1oz)
Dimensions	150 x 35mm (6 x 1.4")
Packing List	Elcometer 260 UV Pinhole Flashlight, UV protective glasses, nylon belt holster, 2 x CR123A batteries, operating instructions

Accessories

T26020140	UV Protective Glasses
T26020141	2 x Replacement 123A batteries

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Due to our policy of continuous improvement, Elcometer Limited reserves the right to change specifications without notice. All gauges are supplied with a 1 year warranty as standard unless stated otherwise.

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