

## Elcometer 236 Holiday Detector

This instrument provides high voltage porosity testing to detect pits, flaws, holes, etc, in a wide variety of non-metallic coatings.

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

Standard and telescopic handles  
available for hard to reach areas



Integrated neon bulb in the handle,  
together with buzzer indicate when  
a holiday has been located

Adjustable sensitivity allows use  
on partially conductive surfaces

A wide range of probe brushes  
and springs available

Can be used in accordance with:  
(see Standards Explained inside back cover)

ANSI/AWWA C213	ASTM D 5162-B	ISO 2746	NACE RP0190
AS 3894.1	ASTM G 62-B	ISO 29601	NACE RP0490
ASTM C 536	BS1344-11	JIS K 6766	NACE SP0188
ASTM C 537	DIN 55670	NACE RP0274	NACE SP0490
ASTM D 4787	EN 14430	NACE RP0188	



Available in 2 versions, 15kV and 30kV, each Elcometer 236 unit provides the user with complete control of voltage and sensitivity settings.

Each unit is supplied in a convenient carrying 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 structures.

### Technical Specification

 certificate available

	Elcometer 236 15kV Holiday Detector	Elcometer 236 30kV Holiday Detector
Part Number	<b>D236--15KV</b>	<b>D236--30KV</b>
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	NiMH 12V internal rechargeable battery	
Battery Life (approximate)	10/12 hours continuous use, 20/24 hours with the optional external battery pack	
Dimensions	200 x 170 x 70mm (6 x 7 x 3")	
Weight	2.8kg (6lb 3oz)	
Packing List	Elcometer 236, probe handle and lead, band brush probe, 2m (79") & 10m (394") signal return/earth leads, battery charger with 3 mains cables (UK, EUR and US), carry case, transit case and operating instructions	

### Accessories

<b>T23622790-1</b>	Telescopic probe handle, 600 - 1200mm (24 - 47")
<b>T23622790-2</b>	Telescopic probe handle, 1800 - 3600mm (71 - 142")
<b>T236139031</b>	2m (6.5') earth signal return lead
<b>T236139032</b>	10m (32') earth signal return lead
<b>T23615550</b>	External battery pack

For rolling springs, rubber or wire brush probes and other accessories see pages 14 - 18

## Accessories for all Elcometer High Voltage Holiday Detectors

Part Number	Description	Compatible with		
		Elcometer 236	Elcometer 266	Elcometer 280



Batteries, Chargers & Earth Signal Return Leads				
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 lithium ion battery pack		•	•
T99919999A	Battery charger & mains lead (UK 240V)		•	•
T99919999B	Battery charger & mains lead (EU 220V)		•	•
T99919999C	Battery charger & mains lead (US 110V)		•	•



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 piece, 250mm (9.8")	◦	•	•
T99919988-1	Probe extension piece, 500mm (20")	◦	•	•
T99919988-2	Probe extension piece, 1000mm (39")	◦	•	•



### Accessory Adaptors, allowing 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	•		

◦ Older Elcometer 236 models may require adaptor piece T99922768

### Accessories for all Elcometer High Voltage Holiday Detectors

Part Number	Description	Compatible with				
		Elcometer 236	Elcometer 266	Elcometer 280		
Wire Brush Probes, band brush, flat brush, internal and external pipe brush probes						
	T99919975	Band brush probe	○	●	●	
	T99922751	Phosphor bronze brush probe	○	●	●	
		Width				
T99920022-1	Right angled wire brush probe	0.25m 9.8"	○	●	●	
T99920022-2	Right angled wire brush probe	0.50m 19.7"	○	●	●	
T99920022-3	Right angled wire brush probe	1.00m 39"	○	●	●	
T99926621	Spare wire brush electrode	0.25m 9.8"	●	●	●	
T99926622	Spare wire brush electrode	0.50m 19.7"	●	●	●	
T99926623	Spare wire brush electrode	1.00m 39"	●	●	●	
		Diameter				
	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"	○	●	●
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"	●	●	●	

○ Older Elcometer 236 models may require adaptor piece T99922768

## Accessories for all Elcometer High Voltage Holiday Detectors

Part Number	Description	Compatible with		
		Elcometer 236	Elcometer 266	Elcometer 280

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

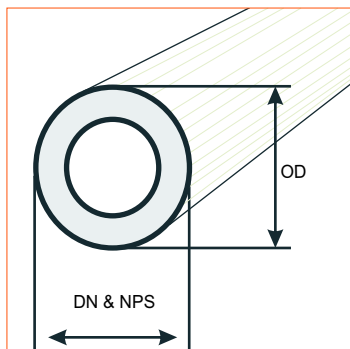
	T99922752	'C-type' wire brush holder <sup>†</sup> (order C-type brush from the list below)	○	●	●
	T99922907	'C-type' wire brush support handle	○	●	●
			Outside Diameter (OD)		
			DN	NPS	
T99922745-1	External 'C-type' wire brush	150 - 250mm	6 - 9"	●	●
T99922745-2	External 'C-type' wire brush	250 - 350mm	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"	●	●

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

### Conductive Rubber Probes

	Description	Width				
		mm	in			
	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, 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 at 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.

○ Older Elcometer 236 models may require adaptor piece T99922768

## Accessories for all Elcometer High Voltage Holiday Detectors

Part Number	Description	Compatible with		
		Elcometer 236	Elcometer 266	Elcometer 280
Rolling Springs, available in phosphor bronze or stainless steel, rolling spring holders are supplied separately				
<b>T99920086</b>	Phosphor bronze rolling spring holder Order the relevant phosphor bronze spring(s) from the list below	○	●	●
<b>T99922746</b>	Stainless steel rolling spring holder Order the relevant stainless spring(s) from the list below	○	●	●



### Rolling Spring Description / Dimensions

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

○ Older Elcometer 236 models may require adaptor piece T99922768



## Accessories for all Elcometer High Voltage Holiday Detectors

Rolling Springs, available in phosphor bronze or stainless steel, rolling spring holders are supplied separately



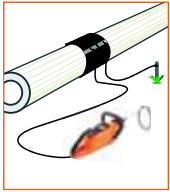
### Rolling Spring Description / Dimensions

		Nominal Pipe Size		Pipe Outside Diameter (OD)			
		DN (mm)	NPS (inches)	millimeters (mm)		inches (")	
Phosphor Bronze	Stainless Steel			min OD	max OD	min OD	max OD
T99920438-160A	T99922744-160A	406	16.0	400	435	15.7	17.1
T99920438-160B	T99922744-160B			435	450	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.

## Accessories for all Elcometer High Voltage Holiday Detectors

### Grounding mats



Grounding mats are ideal for testing on un-grounded 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.

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

### Why choose Elcometer ?

For more than sixty years Elcometer has been a world leader in the design, manufacture and supply of inspection equipment to the coatings industry.

Ever since the first Elcometer gauge was manufactured in 1947, our philosophy has been to provide 'best in class' design, quality and service at a competitive price. By concentrating on these core values, Elcometer has grown into a global network with representation in over 70 countries.

With a range of products specifically developed to meet the needs of the coatings industry, Elcometer is well positioned to provide you with the solution to your inspection requirements - whatever and wherever they might be.

### Fit for Purpose - Standards Explained

All Elcometer products are designed to comply with National and International Standards. We have a team of experts working with Standards bodies around the world, ensuring we have products fit for purpose, exceeding the demands of our customers.

In this catalogue, we have identified the latest National and International Standards - those in Orange are current and those in Grey have been superseded but are still recognised in some industries.

We continuously review our products against current and new Standards and for the most up to date list, visit our online catalogue which provides the latest information on all new, current and superseded Standards which our products can be used in accordance with.

### Service and Support

Elcometer has over 150 Distributors around the world, all comprehensively trained in our products, providing a full after sales service and support within your region. With the widest range of own manufactured products, Elcometer can provide a complete solution to all your inspection requirements.

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