

Elcometer 236

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.

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,
NACE SP0188, NACE SP0490

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

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

A wide range of probe brushes and springs available

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	D236--15KV	D236--30KV	○
Part Number with Certificate	D236--15KVC	D236--30KVC	●
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 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

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.

Elcometer 236, 266 & 280 High Voltage Holiday Detector Accessories


Batteries, Chargers & Earth Signal Return Leads

	Part Number	Description	Compatible with		
			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

High Voltage Holiday Detector Accessories

Elcometer 236, 266 & 280

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

Part Number	Description			Compatible with			
				Elcometer 236	Elcometer 266	Elcometer 280	
Width							
	T99920022-1	Right angled wire brush probe	0.25m	9.8"	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	T99920022-2	Right angled wire brush probe	0.50m	19.7"	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	T99920022-3	Right angled wire brush probe	1.00m	39"	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	T99926621	Spare wire brush electrode	0.25m	9.8"	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	T99926622	Spare wire brush electrode	0.50m	19.7"	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	T99926623	Spare wire brush electrode	1.00m	39"	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Diameter							
	T99920071-1	Internal circular wire pipe brush probe	38mm	1.5"	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	T99920071-2	Internal circular wire pipe brush probe	51mm	2.0"	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	T99920071-3	Internal circular wire pipe brush probe	64mm	2.5"	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	T99920071-4	Internal circular wire pipe brush probe	76mm	3.0"	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	T99920071-5	Internal circular wire pipe brush probe	89mm	3.5"	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	T99920071-6	Internal circular wire pipe brush probe	102mm	4.0"	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	T99920071-7	Internal circular wire pipe brush probe	114mm	4.5"	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	T99920071-8	Internal circular wire pipe brush probe	127mm	5.0"	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	T99920071-9	Internal circular wire pipe brush probe	152mm	6.0"	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	T99920071-10	Internal circular wire pipe brush probe	203mm	8.0"	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	T99920071-11	Internal circular wire pipe brush probe	254mm	10"	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	T99920071-12	Internal circular wire pipe brush probe	305mm	12"	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	T99920071-13	Internal circular wire pipe brush probe	356mm	14"	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	T99920071-14	Internal circular wire pipe brush probe	406mm	16"	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	T99920071-15	Internal circular wire pipe brush probe	508mm	20"	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	T99920071-16	Internal circular wire pipe brush probe	610mm	24"	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
T9993766-	Spare circular wire brush electrode	38mm	1.5"	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
T9993767-	Spare circular wire brush electrode	51mm	2.0"	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
T9993768-	Spare circular wire brush electrode	64mm	2.5"	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
T9993769-	Spare circular wire brush electrode	76mm	3.0"	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
T9993770-	Spare circular wire brush electrode	89mm	3.5"	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
T9993771-	Spare circular wire brush electrode	102mm	4.0"	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
T9993772-	Spare circular wire brush electrode	114mm	4.5"	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
T9993773-	Spare circular wire brush electrode	127mm	5.0"	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
T9993774-	Spare circular wire brush electrode	152mm	6.0"	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
T9993775-	Spare circular wire brush electrode	203mm	8.0"	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
T9993776-	Spare circular wire brush electrode	254mm	10"	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
T9993777-	Spare circular wire brush electrode	305mm	12"	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
T9993778-	Spare circular wire brush electrode	356mm	14"	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
T9993779-	Spare circular wire brush electrode	406mm	16"	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
T9993780-	Spare circular wire brush electrode	508mm	20"	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
T9993781-	Spare circular wire brush electrode	610mm	24"	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

Older Elcometer 236 models may require adaptor piece T99922768

Pinhole & Porosity

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† (order C-type brush from the list below)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
T99922907	'C-type' wire brush support handle*	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>



	Description	Outside Diameter (OD)		Elcometer 236	Elcometer 266	Elcometer 280
		DN	NPS			
T99922745-1	External 'C-type' wire brush	150 - 250mm	6 - 9"	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
T99922745-2	External 'C-type' wire brush	250 - 350mm	9 - 12"	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
T99922745-3	External 'C-type' wire brush	350 - 450mm	12 - 16"	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
T99922745-4	External 'C-type' wire brush	450 - 550mm	16 - 20"	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
T99922745-5	External 'C-type' wire brush	550 - 650mm	20 - 24"	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
T99922745-6	External 'C-type' wire brush	650 - 750mm	24 - 28"	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
T99922745-7	External 'C-type' wire brush	750 - 850mm	28 - 32"	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
T99922745-8	External 'C-type' wire brush	850 - 950mm	32 - 36"	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
T99922745-9	External 'C-type' wire brush	950 - 1050mm	36 - 40"	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
T99922745-10	External 'C-type' wire brush	1050 - 1150mm	40 - 44"	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

† Wire brush holder supplied separately (T99922752)

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

Conductive Rubber Probes



	Description	Width		Elcometer 236	Elcometer 266	Elcometer 280
		mm	in			
T99920022-11	Right angled rubber probe	250mm	9.8"	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
T99920022-12	Right angled rubber probe	500mm	19.7"	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
T99920022-13	Right angled rubber probe	1000mm	39"	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
T99920022-14	Right angled rubber probe	1400mm	55"	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
T99926731	Spare rubber electrode	250mm	9.8"	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
T99926732	Spare rubber electrode	500mm	19.7"	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
T99926733	Spare rubber electrode	1000mm	39"	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
T99926734	Spare rubber electrode	1400mm	55"	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Rolling Springs Holders

T99920086	Phosphor bronze rolling spring holder Order the relevant phosphor bronze spring(s) from the list on page 17	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
T99922746	Stainless steel rolling spring holder Order the relevant stainless steel spring(s) from the list on page 17	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Older Elcometer 236 models may require adaptor piece T99922768

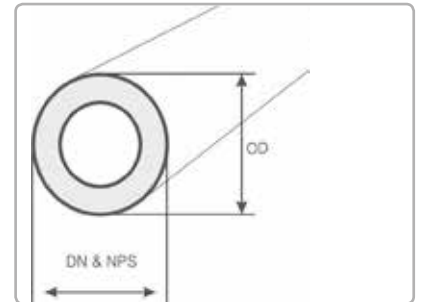
High Voltage Holiday Detector Accessories

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

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

□ Older Elcometer 236 models may require adaptor piece T99922768

Pinhole & Porosity

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 Dimensions

Part Number		Nominal Pipe Size		Pipe Outside Diameter (OD)			
		DN	NPS	millimeters (mm)		inches (")	
Phosphor Bronze	Stainless Steel	(mm)	(inches)	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.

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 (OD)		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	Grounding pin; 60cm (23.5") long					■
T28022749	10m (32') earth lead, clips each end					■
T28022750	10m (32') earth lead, clip / Elcometer 280 connector					■

□ Older Elcometer 236 models may require adaptor piece T99922768