

## Elcometer 280

### STANDARDS:

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

## Pulsed DC Holiday Detector

نماینده فروش در ایران

کاوشکاران

تلفن: ۰۲۱ - ۸۸۶۸ ۵۲۹۷

[www.IR-QC.com](http://www.IR-QC.com)

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

0.5 - 35kV range (user selectable) for detecting porosity in coatings up to 25mm (1") thick

Safety trigger integrated inside the handle cuts power if released

Rugged, shock proof and water resistant design to ensure long life, even in harsh environments

Balanced, ergonomic design, complete with shoulder strap allows long periods of continuous use



## 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.

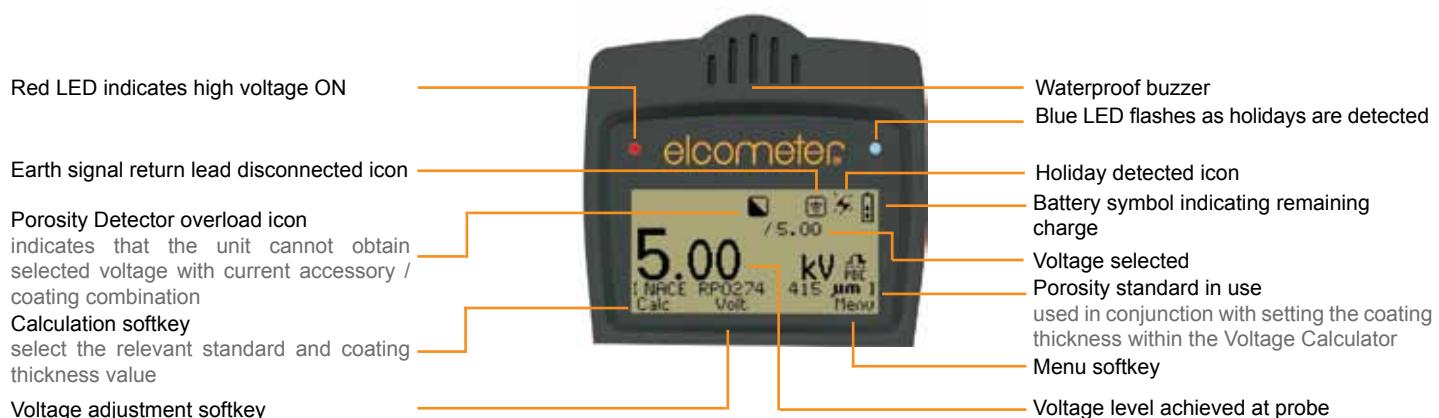
Rugged, shockproof and water resistant, each unit is designed for use even in the harshest of environments.

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# Pinhole & Porosity

## Elcometer 280

## Key Features



\* the battery life is dependant on selected voltage and load applied - see Technical Specification for more information

**Pulsed DC Holiday Detector****Elcometer 280**

## Technical Specification

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Description	Model S	Model T	Certificate
Elcometer 280 Pulsed DC Holiday Detector Inspection Kit	D280-S-KIT	D280-T-KIT	○
Elcometer 280 Pulsed DC Holiday Detector	D280-S----	D280-T----	○
Rugged, Shockproof & Water Resistant	■	■	
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: 100V steps		
High Voltage Output Accuracy	±5% or ±50V below 1000 Volts		
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 4 hours		
Typical Battery Life	Battery life is dependant upon selected voltage and load applied; 12" (DN305) Rolling Spring: 30 hours at 10kV; 12 hours at 35kV 40" (DN1016) Rolling Spring: 22 hours at 10kV; 8 hours at 35kV		
Instrument Case Dimensions	PC ABS case; (l x w x h): 603 x 219 x 193mm (23.7 x 8.6 x 7.6")		
Weight (no probes attached)	3.0kg (6.6lb) - including battery pack		
Packing List	<b>Elcometer 280 Pulsed DC Holiday Detector</b> Gauge ( Model S or T), 5m (16') trailing signal return lead, battery pack, battery charger with mains cables (UK, EUR and US), shoulder strap and operating instructions <b>Elcometer 280 Pulsed DC Holiday Detector Inspection Kit</b> Gauge (Model S or T), 5m (16') trailing signal return lead, battery pack (2 supplied with Model T), battery charger with mains cables (UK, EUR & US), stainless steel rolling spring holder (supplied with Model T only), 250mm (9.8") probe extension shaft, shoulder strap and operating instructions - packed in a light weight, rugged, wheeled transit case - ideal for transportation		

## 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.	
750mm (29.5") long - for pipe diameters up to 9" (NPS)/ 229mm (DN)	T28022637-1
1500mm (59") long - for pipe diameters up to 18" (NPS)/ 457mm (DN)	T28022637-2
2500mm (98.5") long - for pipe diameters up to 30" (NPS)/ 762mm (DN)	T28022637-3
3500mm (137.5") long - for pipe diameters up to 42" (NPS)/ 1067mm (DN)	T28022637-4
Grounding pin; 60cm (23.5") long x 0.2cm (0.75") diameter	T28022748
Trailing signal return lead, 5m (16')	T28022622
10m (32') earth lead, clips each end (for use with the grounding mat)	T28022749
10m (32') earth lead, clip / Elcometer 280 connector (for use with the grounding mat)	T28022750

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



○ Optional Calibration Certificate available.