

**NDT1
KRAFT**

ndtone.com



Small sized digital K-series holiday detectors

Purpose

Detection of cracks, porosity, inadmissible thinning and other discontinuities of internal and external protective dielectric coatings (varnish, paint, powder, film, bituminous and other dielectric coatings) by application of pulsed high test voltage and fixing electrical breakdown in places of discontinuity or inadmissible thinning.

Features

- High stability of test voltage on electrode;
- possibility to customize sensitivity;
- large set of replaceable electrodes for control of products with different purposes;
- digital display of test voltage on electrode;
- special electrodes for inspection of internal and external surfaces of pipes;
- quick battery change;
- possibility to recharge battery separately from the electronic unit.

Basic technical characteristics

	K1	K2.1	K2.2
Test voltage, kV	0.6–4 (or 0.8–7)	2–35	5–40
Coating thickness, mm	0.04–1	up to 12	up to 16
Operating mode	pulsed	pulsed	pulsed
Resolution of test voltage setting, kV	0.1	0.1	0.1
Accuracy of test voltage maintenance, %	2	2	2
Power supply	built-in rechargeable battery for temperature range –20...+45 °C or low-temperature for range –45...+45 °C		
Continuous operation time with charged battery, h	up to 20	up to 8	up to 8
Weight of Control unit, kg	2	2	2
Weight of High-voltage transformer-holder, kg	1.3	1.3	1.3
Overall dimensions of control unit, mm	240 × 149 × 52	240 × 149 × 52	240 × 149 × 52
Overall dimensions of high-voltage transformer-holder, mm	57 × 350	57 × 350	57 × 350

Basic delivery set

- High-voltage transformer-holder VT1;
- control unit;
- electrodes — depending on modification (flat rubber electrode for K1 device or brush fan and T-shaped electrodes with extension rod for gauges K2.1 and K2.2);
- battery charger;
- two rechargeable batteries;
- grounding stick;
- grounding wire with magnet;
- operating manual;
- thermo bag;
- case for storage and transportation.

The devices can be additionally equipped with

- Rechargeable batteries;
- AC power supply 220 V;
- extension rods for electrodes (from 0.3 up to 2 m long);
- demountable electrically safe extension rods with overall length up to 12 m (for control of coatings inside pipes);
- ground wire with length up to 20 m;
- specialized high-voltage transformer-holder for inspection of coatings inside pipes;
- dismountable pushers with overall length up to 14 m for inspection of coatings inside pipes;
- intermediate supports of extension rod and pusher for inspection inside pipes;
- remote control unit;
- electrically safe handles;
- replaceable electrodes.

Additional equipment depends on inspection application and is specified during order.



Basic delivery set of K-series Holiday Detector