OKTANTA

Design and manufacture of
non-destructive testing equipment

PE1537
Pulsed Eddy Current Flaw Detector



The **compact PE1537 pulsed eddy current flaw detector** detects metal corrosion under insulation of total thickness up to 200 mm.

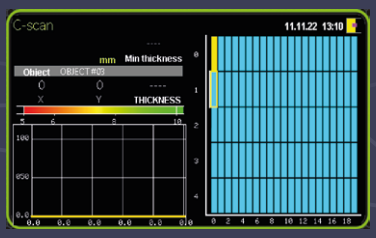
The device operates:
- Without insulation removal;
- Through protective jackets made of aluminum; galvanized steel, or stainless steel;
- On test objects made of carbon and stainless steel;
- On test objects with wall thicknesses up to 30 mm.

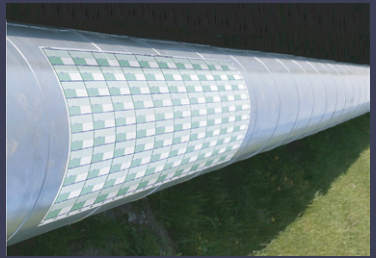


PE1537 Application



- Corrosion detection on oil and gas pipelines with film insulation;
- Corrosion detection on pipes and pipelines with a 3-layer polypropylene coating;
- Corrosion detection on stainless steel pipes and pipelines for the nuclear and chemical industries;
- Corrosion detection on pipes and pipelines in polyurethane foam insulation;
- Corrosion detection on different steel supports, for example, street lamp supports or electrical grid supports;
- Inspection of pipes with internal cement coating from the inside of the pipe;
- Corrosion areas detection on pipes through rust without stripping;
- Corrosion detection on steel ship parts through a thick layer of paint.





For accurate C-scan plotting use a measurement grid. You can draw the grid manually on the test object or use our **special self-adhesive grid**, which is easy to attach to the surface of the test object.

PE1537 Features

- **Compact, lightweight, and convenient**: The device weighs only 0.8 kg. It features an ergonomic, shock-proof housing.
- **Bright display**: The color display shows the measured thickness, A-scan, and C-scan. The display is protected by impact-resistant glass.
- **Data storage and transfer**: Measurement results are stored in the device's memory and can be easily transferred to a PC via USB.
- **Underwater operation**: The probe features an IP68 dust and water protection rating and can be used underwater.
- **Wide operating temperature range**: The temperature of the test object's metal ranges from -200 to +400 °C. The temperature of the jacket surface at the probe contact point ranges from -20 to +60 °C.
- Equipped with a r**emovable rechargeable battery**.



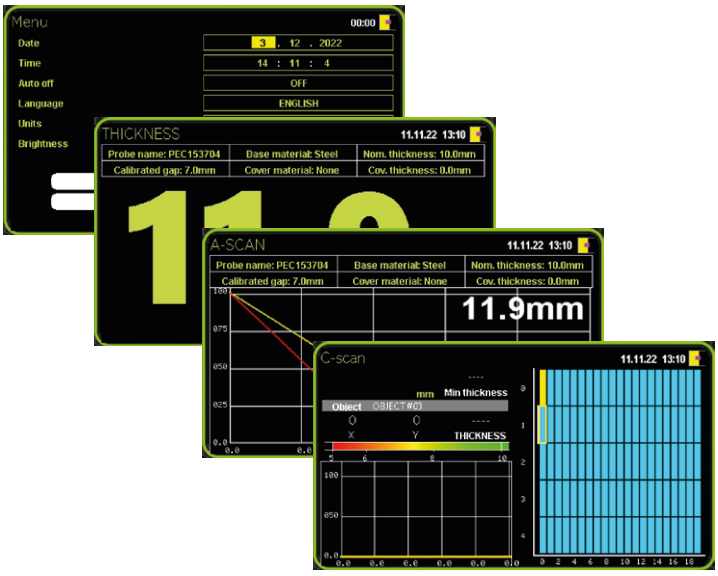


Configuration



The device comes in a shock-resistant case for transportation and storage.
The package includes the device itself, PEC153704 and PEC153705 probes, a plastic protector, a charger, and an operation manual.

Display Modes



- C-scan;
- A-scan;
- Measured thickness;
- Interface settings.

PE1537 Technical Specifications

GENERAL	
Range of measured thickness for steel	0–30 mm (0–1.2 in)
Average thickness measurement error	10 %
Range of insulation coating thickness (PEC153704): – no jacket, stainless steel jacket – aluminum jacket – galvanized steel jacket	 0–200 mm (0–7.8 in) 0–180 mm (0–7.0 in) 0–150 mm (0–5.9 in)
Range of insulation coating thickness (PEC153705): – no jacket, stainless steel jacket – aluminum jacket	 0–200 mm (0–7.8 in) 0–100 mm (0–3.9 in)
Minimum pipe diameter	89 mm (3.5 in)
Jacket material	– stainless steel – aluminum – galvanized steel
ENVIRONMENTAL	
Temperature of the test object metal	–200 to +400°C (–328 to +752°F)
Temperature of the jacket surface in the place of probe contact	–20 to +60°C (–4 to +140°F)
Range of operating ambient temperature	–20 to +50°C (–4 to +122°F)
DEVICE	
Dimensions	232 x 135 x 44 mm (9.1 × 5.3 × 1.7 in)
Weight	0.8 kg (1.8 lb)
Display	Color LCD with tempered impact-resistant glass
Housing	Shockproof plastic
Battery life	7 hours of continuous operation
Connectors	USB Type-A port, charger port

Contacts:

34 Olga Berggholz Street,
Saint Petersburg, Russia
oktanta-ndt.com

+7(812) 385-54-28
info@oktanta-ndt.com

Our dealers:

China
Beijing Accurate Testing Technology Co. Ltd.
www.bj-jzj.cn
Phone: +86-15-010482279
Email: accurate.zhao@jzjndt.com

India
Russell Technologies India Pvt. Ltd.
www.russelltech-india.in
Phone: +91 7905987208
Email: info@russelltech-india.com

South Korea
Dae Hyeon Tech
www.daehyeontech.co.kr
Phone: +82-10-4761-2911
Email: halim1475@naver.com

Israel
GABI SHOEF LTD.
www.gabishoef.co.il
Phone: +97248201735
Email: sasha@gabishoef.co.il