

PACE™

Portable, Reliable Crack Detection with ACFM®



tsc

BE ONE STEP AHEAD WITH PACE™.

In the quest to make Alternating Current Field Measurement (ACFM®) a universal and easy-to-use surface inspection method, we can now introduce the next step in the evolution of portable ACFM technology - PACE; designed to meet the needs and performance of the solo operator across the oil & gas, power generation, rope access structural inspection industries.



ENHANCED SOFTWARE

Enhanced software enables the creation and delivery of inspection reports detailing defect sizes, locations and scans. Full records of all scan data are stored for audit tracking and ACFM desktop software supports further investigations of the scan and inspection data, enabling bespoke and client specific report generation.

The on-board camera enriches reports, providing operators with the option to use detailed imagery from the inspection site.

PACE ACFM REPORTING

Creating professional site reports is fast and simple with the PACE instrument. Within a single function any data page can quickly be transformed into a report with full location information, relevant data traces, defect sizes, noted observations together with any photographs taken at selected locations. Reports also contain all probe and instrument details, together with inspector information and sign off boxes. Reports can be stored in both .pdf and .docx formats on the PACE internal drive or downloaded on to a USB stick.

SENSU™ PROBES

TSC's functional design philosophy is embodied in the new and innovative probe range that partners PACE - SENSU. These pencil style ACFM probes have been designed to perform easy continuous scanning, whilst being able to gain access to challenging tight angle inspection areas. As "intelligent" probes the SENSU range stores configuration information internally and provides live feedback of scanning status whilst in use.

The SENSU probes can be configured with a straight, right angle or transverse right angle ceramic nose, at a standard frequency of 5kHz. High frequency options are also available at 50kHz.

SENSU™ FEATURES

Ergonomic Design for hand held scanning.

Robust wear-resistant ceramic nose.

Selection of nose configurations available.

Hot swappable.

PORTABLE ACFM INSPECTION TECHNOLOGY

Developed through operator focus and field testing, PACE™ embodies robust, user-centric, ergonomic features; with a toughened sunlight readable display, long battery life and supported by a new generation of software. Ensuring high levels of data integrity and assurance, PACE™ will be setting new standards for the non-destructive testing for surface breaking crack detection.



PACE FEATURES

- Reliable, repeatable crack detection using ACFM.
- Accurate defect sizing, length and depth.
- Through coating inspection.
- No cleaning required.
- No in-situ calibration needed.
- Long life battery (8+hrs).
- Large, toughened high brightness LCD screen.
- Desktop & in-car charger.
- Built-in Camera.
- Interface design enables single-handed operation during inspection (left or right).

KEY APPLICATIONS

- Single Person Operation.
- Rope Access Inspections.
- Weld Inspection.
- Painted & Coated Structures.
- Cranes & Towers.
- Refinery Piping & Vessels.
- Bridges & Infrastructures.
- Rail Wagon Integrity.
- Mining Gear Teeth.
- Topside Offshore/Onshore Structures.

PACE™ SYSTEM SPECIFICATIONS

GENERAL	
Dimensions (WxHxD)	295x198x75 mm (11.6x7.8x3.0 in)
Weight	2.5 kg (5.5 lb)
Screen	Built-in TFT display, 17.7cm (7 inches) Optically bonded, chemically strengthened glass
Operating Temperature	-20°C to 60°C
Battery Information	3.5 hrs recharge time (from empty), 14.4V, 98 Wh Desktop charger and in-car charger
Battery Life	8+ hours
Environmental Protection	IP65
Outputs	External Display, VGA
Data Storage	32GB Internal, external USB storage device
Probe Cable Length	1.5 metres (4.9 feet) standard. 5, 10 and 15 metre options available)
Languages	English
Attachment points	4 rugged corner harness points
On-Board Camera	5 Megapixels
Transport Case	Rugged, wheeled PELI™ case: 558x355x228 mm (22.0x14.0x9.0 in)
SENSU™ Probes	Straight, Right-Angled and Transverse nose configurations. 5kHz and 50kHz. Hot swappable. (see below)

PACE™ INSTRUMENT PACKAGE
PACE ACFM Instrument
SENSU Checker
Battery Charger, desktop battery dock and power cable
12/24V vehicle charger lead
Type 181 ferrous ACFM function check block (ASTM)
Wireless Keyboard & Touchpad
Desktop Software on USB Stick
Shoulder Strap
Desktop Field Stand
Transit Case

AVAILABLE PROBES
SENSU 5 kHz pencil probe - Straight
SENSU 5 kHz pencil probe - Right Angle
SENSU 5 kHz pencil probe - Transverse
SENSU 50kHz pencil probe - Straight
SENSU 50kHz pencil probe - Right Angle
SENSU 50kHz pencil probe - Transverse
Customised probes are available on request
ANNUAL MAINTENANCE PACKAGE INCLUDES
Annual calibration of instrument and probes
Software licences and updates
Technical support