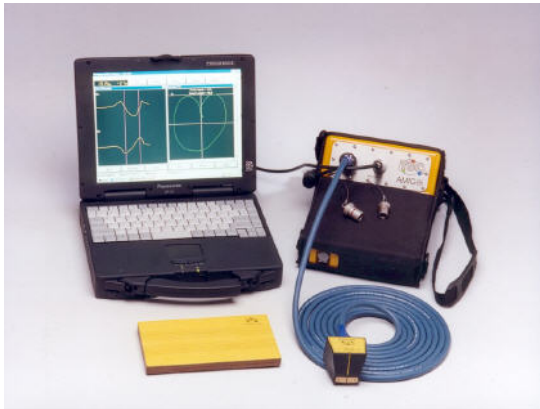


AMIGO “ACFM” Crack Microgauge



The **AMIGO** is one of a series of nondestructive testing ACFM (AC Field Measurement) instruments manufactured by **TSC Inspection Systems Ltd. (TSC)**, developed for the detection and sizing of defects in electrical conducting material. The new AMIGO represents a significant advance in topside inspection technology.

The ACFM technique is ideally suited for defect detection and sizing when electrical contact is impossible or undesirable. It is especially useful for rapid scanning and for sizing through paint and rust, both topside and underwater.

The ACFM technique has now been widely accepted by certifying authorities and the majority of offshore operators as an acceptable technique for the detection of surface breaking fatigue cracks either on uncoated or coated steel structures.

The **AMIGO** has all the advantages of ACFM inspection available on other TSC instruments, but in a smaller, lighter package with the added benefits of a longer battery life and is more user friendly.

The system provides:

- ◆ Rapid scanning using a hand-held probe.
- ◆ No couplant required.
- ◆ Reliable crack detection and sizing (length and depth).
- ◆ Dual frequency option:
 - 5kHz (for optimum performance on ferritic steel).
 - 50kHz (for improved sensitivity on non-ferrous metals).
- ◆ Rugged site unit, IP54 rated.
- ◆ 10-hour operation on one fully charged battery pack, and easy exchange of battery packs in the field.
- ◆ Reduced cleaning requirements with no need to clean to bare metal.

- ◆ Capable of inspection through thin metallic coatings, or through non-conducting coatings up to 10mm thick.
- ◆ Windows software for ease of operation and compatibility with other Windows applications.
- ◆ Full data storage for back-up, off-line view and audit purposes.
- ◆ Access to a wide range of geometries using TSC's new range of active topside probes.
- ◆ Buttons for RUN / STOP and MARKERS on instrument and larger probes to allow one-man operation in difficult access areas.
- ◆ Array Probes for scanning both sides of welds in a single pass.
- ◆ Intelligent probes to simplify operation.



SYSTEM SPECIFICATION

Unit Weight:	4.5 kg (10 lbs.)
Unit Size:	206 x 292 x 127mm (5.15"W x 7.3"L x 3.17"H)
Probe Cable Length:	5 meters standard, up to 50m by special request
Serial Communications Cable up to:	30 meters (98 ft.)
Operating Temperature:	-20° + 40°C
Environment Protection:	IP54 rated
Array Support:	16 channels plus position encoder

SOFTWARE

A new version of **TSC's** user friendly QFM software (v3) has been produced to take advantage of the major improvements incorporated in the Amigo. The new version retains the look and feel of earlier versions to avoid the need for retraining of U9 operators.

NOTE: Computer system not included, should be supplied by user

Contact Vic Kelly at **NDT INTERNATIONAL, INC.** with any questions.

Tel: (610) 793-1700 FAX (610) 793-1702 e-mail: ndtint@ndtint.com