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Alternating Current Field Measurement (ACFM)

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Technical Specifications

Item	Value
Optional Probes	TSC U31 Weld Probe, U31 Weld Probe TA 312, U31 Mini Pencil 336, U31 Micro Pencil RA 354, U31 Micro Probe, 'Pick and Place' probe.
Probe Cable Length	5 meters standard, up to 50m by special request.
Serial Communications Cable	5 meters as standard up to 30 meters if required.
Operating Temperature	-20° +40°C
Maximum Operating Depth	300m as standard, can be extended to 2000m for ROV deployment
Power Requirements	110v AC. 200mA
Optional Array Support	16 channels (i.e. 8 sensor pairs) plus position encoder

Dimensions

Description	mm	inch	kg	lbs
Sub Sea Unit (D × L)	142 mm × 260 mm	5.6 × 10.2"	—	—
Weight in air	—	—	7.6 kg	16.8 lbs
Weight in water	—	—	4.3 kg	9.5 lbs

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Key Features

- Rapid scanning using a hand-held probe.
- Reliable crack detection and sizing (length and depth).
- Reduced cleaning requirements with no need to clean bare metal.
- Capable of inspecting corroded surfaces, or through non-conducting coatings several millimeters 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 subsea probes.
- Probes with embedded serial numbers to simplify operation and reduce likelihood of operator error.
- Capable of operating at water depths up to 300m.