

ALTERNATING CURRENT FIELD MEASUREMENT



FOR ALL YOUR INSPECTION NEEDS



Alternating Current Field Measurement (ACFM) is an electromagnetic inspection technique developed for fast scanning to locate cracks in welds and surface materials covered by paint, coating and marine growth. The technology relies on the fact that an alternating current flowing in a component will be disturbed by the presence of a crack.

The ACFM probe introduces an electric current locally into the structure and measures the associated electromagnetic fields close to the surface. The presence of a defect disturbs the associated fields and the information is graphically presented to the system operator.

The ends of a defect are easily identified to provide information on defect location and length. The significance of a defect, in terms of structural integrity, generally depends on depth of the defect. Using mathematical models, the system also provides the depth of the defect, thus allowing an immediate evaluation of significance of the crack indication.



SYSTEM SPECIFICATION

Unit Weight:	4.5kg
Unit Size:	206x 292 x 127 mm
Probe Cable Length:	5 meters
Serial Communications Cable up to:	30 meters
Operating Temperature:	0 + 40C
Environment Protection:	IP54 rated
Battery Life:	> 5 hours continuous operation with array Probe > 10 hours with a single probe
Recharge Time:	4 hours
Array Support:	32 channels standard (i.e. 16 sensor pairs) plus position encoder.