

Corrosion detection in limited access steel columns.

# ColcheK 2



## ColcheK2

Developed in association with Dinsley Devices Ltd and manufactured under exclusive licence, the ColcheK2 system is a compact, rugged unit designed specifically to detect corrosion in steel tubes. Applications include pipework and risers through bulkheads and deck plates on board ships and offshore installations; lighting columns and lamp posts embedded into the ground, and, any other applications where access is limited.

The system is deployed from the outside of the columns and a small search head, used internally, detects loss of wall thickness. When used for this type of routine inspection of lighting columns, there is no need to excavate the site as the ColcheK2 can detect a 5% loss of wall section as far down as 750mm below the ground level.

The ColcheK2 has a unique ultrasonic range finding system used to accurately feedback the search head depth inside the column. This information allows the operator to locate and identify the depth of an actual defect and its significance when related to depth. A defect located deep down is less significant than those located near to ground level. The cable entry on a column can also easily be identified by its depth and size and eliminated from the inspection.

Lighting columns are most susceptible to corrosion at and slightly below ground level; water, road salt and other chlorides and oxygen from the air combine to make this a highly corrosive area. Using the normal access door, the ColcheK2 probe is able to scan the critical area and give an instant reading of the percentage loss of wall thickness on the instrument meter.

The ColcheK2 is currently used by inspection companies and local councils to inspect lighting columns prior to the installation of lights and decorations to check the column is suitable to

bear the additional strain. ColcheK2 has been used on seaside resort lighting columns where summer decoration and additional lighting is common. It is also used in special event areas including those around the Isle of Man TT course prior to racing

### General Unit Specifications

Dimensions	400 x 300 x 210mm (Exc. Probe)
Weight	4.5Kg
Battery	12V Sealed Lead Acid Battery
Probe Reach (Standard)	1M
Resolution	5mm @ 750mm Depth



The Validation Centre (TVC) Limited reserves the right to alter or change product specification without prior notice.



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