

COLCHEK2

TVC

Corrosion detection in limited access steel columns



Developed in association with Dinsley Devices Ltd and manufactured under exclusive licence, the ColcheK2 system is a compact, rugged unit specifically designed to detect corrosion in the below ground section of planted steel lighting columns. Other applications include pipework and risers through bulkheads and deck plates on board ships and offshore installations.

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 an optional 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 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 being used by inspection companies and local councils to inspect lighting columns prior to the installation of advertising boards and decorations to check the suitability of the column to bear an additional load. The equipment is used at seaside resort lighting columns where seasonal decoration and additional lighting displays are common. It has also been used in public open area special events to test the safety of lamp posts before large crowds gather.



GENERAL UNIT

Resolution	5mm at 750mm depth
Standard Probe Reach	1M
Dimensions	400 x 300 x 210mm (excl. Probe)
Weight	4.5Kg
Battery	12V Sealed Lead-Acid Battery
Battery Charger	90 - 220V AC, Auto Selection

CALIBRATION & CERTIFICATION

Full calibration certification provided, traceable to The National Physical Laboratory (NPL), UK.



Corrosion detected by customer's using the ColcheK2 system

The Validation Centre (TVC) Limited reserves the right to alter or change product specifications without prior notice. Images are representative of full optional additions installed; delivered equipment and software may vary depending on options purchased.



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