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Equipment for Contact Loss Measurement by Detecting UV Ray

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Contact loss has been one of the most important indexes in evaluating performance of catenary system. Several measurement methods in detecting the contact loss have been developed. The authors have developed the first contact loss measurement equipment which detects UV ray emitted from an arcing at the wayside. Using this measurement equipment, arcing can be detected even in the daytime. In this paper, details of this measurement equipment and some experimental results are reported.