

Remote control for cathodic protection: real time adjustment of CP rectifiers parameters according to IR-free measurement on coupon at a remote measuring point

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ABSTRACT:

Remote monitoring for cathodic protection allows to keep under control many points at the same time in a CP system, by monitoring potential evolution in real time. Performing instant-off measurements on coupon allows to filter IR component in the measurements, thus obtaining, if correctly implemented, IR-free potential.

Remote control for cathodic protection rectifiers allows to adjust remotely rectifier setup parameters, by changing them through a software interface without sending locally a technician to perform the action. Anyway, a periodical analysis of CP system cathodic protection effectiveness is needed to check if rectifier setup is still correct.

Combining this two features in an integrated advanced solution for remote monitoring and control for cathodic protection, it is possible to automatically adjust rectifiers setup no more on local measurement, but on the measurement received from all the measuring point in the CP system (or at least the most significant ones).

This work is focused on showing a field experience where a CP rectifier has been setup to keep under protection a CP system basing not on local measurements, but according to Eirfree measurement on a coupon of a remote measuring point.