

# ISO 13129:2012-10 (E)

## Paints and varnishes - Electrochemical measurement of the protection provided to steel by paint coatings - Current interrupter (CI) technique, relaxation voltammetry (RV) technique and DC transient (DCT) measurements

---

<b>Contents</b>		<b>Page</b>
Foreword .....		iv
Introduction .....		v
1	Scope .....	1
2	Normative references .....	1
3	Terms and definitions .....	1
4	Apparatus .....	2
4.1	Faraday cage .....	2
4.2	Cell for sample, including electrode holder .....	2
4.3	Galvanostat .....	3
4.4	Potentiostat .....	3
4.5	Electrodes .....	3
4.6	Electrolyte .....	4
5	Specimens .....	4
5.1	Preconditioning of specimens .....	4
5.2	Environmental control .....	4
5.3	Evaluation of specimens exposed to weathering in the laboratory and in the field .....	4
5.4	Number of specimens and repeatability of results .....	5
6	Experimental procedure .....	5
6.1	General .....	5
6.2	Current interrupter technique .....	5
6.3	Relaxation voltammetry .....	6
6.4	DC transient measurements .....	7
7	Expression of results .....	8
8	Precision .....	8
9	Test report .....	8
Annex A (normative)	Description of the dummy cell .....	10
Annex B (informative)	Further considerations concerning measurements on coatings .....	12
Annex C (informative)	Examples of results .....	14
Bibliography .....		15