

# ISO 17657-1:2005-09 (E)

## Resistance welding - Welding current measurement for resistance welding - Part 1: Guidelines for measurement

---

<b>Contents</b>		<b>Page</b>
Foreword .....		iv
Introduction .....		v
1	Scope .....	1
2	Normative references .....	1
3	Terms and definitions .....	1
4	Welding current measuring system .....	3
4.1	General .....	3
4.2	Applicability .....	3
4.3	Accuracy .....	3
4.4	Welding current meter with current sensing coil .....	4
5	Current sensors .....	5
5.1	Type of sensor .....	5
5.2	Selection of current sensor .....	5
5.3	Conversion coefficient .....	5
6	Tests and calibration of the welding current measuring systems .....	6
7	Selection of requirements and test procedures for a welding current measuring system ....	6
Annex A (normative)	Definition of weld times .....	8
Annex B (informative)	Types of integrator and equivalent current sensing coil circuits .....	9
Annex C (informative)	Conversion coefficient and maximum output voltage of current sensing coils .....	11