ISO 17657-1:2005-09 (E)

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

Contents

Page

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