



# **Specification for Resistance Welding Controls**



**American Welding Society®**



**AWS J1.1M/J1.1:2013  
An American National Standard**

**Approved by  
American National Standards Institute  
July 29, 2013**

# **Specification for Resistance Welding Controls**

**1st Edition**

Prepared by:  
American Welding Society (AWS) J1 Committee on Resistance Welding Equipment

Under the Direction of  
AWS Technical Activities Committee

Approved by  
AWS Board of Directors

## **Abstract**

This standard provides nomenclature pertaining to the design, construction, and programming of resistance welding controls. Standard calibration and performance parameters as well as labeling and documentation requirements are also outlined. The purpose is to promote standardization, safety, and proper application of resistance welding controls.

ISBN-13: 978-0-87171-842-6  
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# Specification for Resistance Welding Controls

## 1 Scope and Applicability

**1.1 Scope.** This standard provides nomenclature pertaining to the design, construction, and programming of resistance welding controls. Standard calibration and performance parameters as well as labeling and documentation requirements are also outlined. As there are many available resistance welding control types, configurations, sizes and models, not every part of this standard may apply in every case. This document does not supersede regulations, codes and standards relating to electrical and electronic circuit design or implementation. The purpose is to promote standardization, safety, and proper application of resistance welding controls.

**1.2 Units of Measure.** This standard makes use of both the International System of Units (SI) and U.S. Customary units. The latter are shown within brackets [ ] or in appropriate columns in tables and figures. The measurements may not be exact equivalents; therefore, each system must be used independently.

**1.3 Safety.** Safety issues and concerns are addressed in this standard, although health issues and concerns are beyond the scope of this standard.

Safety and health information is available from the following sources:

American Welding Society:

- (1) ANSI Z49.1, *Safety in Welding, Cutting, and Allied Processes*
- (2) AWS Safety and Health Fact Sheets
- (3) Other safety and health information on the AWS website

Material or Equipment Manufacturers:

- (1) Material Safety Data Sheets supplied by materials manufacturers
- (2) Operating Manuals supplied by equipment manufacturers

Applicable Regulatory Agencies

## 2 Normative References

The following standards contain provisions, which, through reference in this text, constitute mandatory provisions of this AWS Standard. For undated references, the latest edition of the referenced standard shall apply. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply.

American Welding Society (AWS) document<sup>1</sup>

AWS A3.0M/A3.0, *Standard Welding Terms and Definitions; Including Terms for Adhesive Bonding, Brazing, Soldering, Thermal Cutting, and Thermal Spraying*

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<sup>1</sup> AWS standards are published by the American Welding Society, 8669 NW 36<sup>th</sup> St, #130, Miami, FL, 33166.