



NO: MCD-111
DATE: July 2013

PRODUCT: Updates to Meet IEC 61010
TYPE: Modification Notice

Modifications to Meet IEC 61010 for Temperature Controllers, Counters and Weekly Timers

Changes made to IEC 61010-1 3rd edition required Omron to verify and make modifications to meet the new 3rd edition. The scope of UL 61010-1 encompasses both laboratory equipment covered in Healthcare applications and equipment covered under other industrial applications. Omron determined that the following products required updates to meet the new IEC 61010-1:

Affected Series

Temperature Controllers

- E5_C- 800 series
- E5_Z, E5CSL & E5_WL Series
- E5L Series
- E5_R Series
- E5_C, E5_N, E5_N-H & E5_N-HT Series
- E5CB, E5CS-U & E5CSV Series.

Counters

- H7_X, H7E_, H7GP, H7HP, H7CZ and H8GN Series

Weekly Timers

- H5F Series

Standard Changes

Some of the major changes to the 3rd edition of IEC 61010-1 include:

- Test and measurement circuit requirements moved to a separate part 2 standard IEC 61010-2-30
- The scope now covers both professional and non-professional products.
- Rewritten clause 6.7 and added Annex K regarding clearances, creepages, solid and thin film insulation and molded and potted parts.
- More detailed mechanical requirements
- Temperature requirements modified due to EN563
- X-ray requirements modified to include intended and non-intended emissions
- Added requirements for foreseeable misuse and ergonomics
- New requirements for risk assessment
- New informative section on pollution degree and microenvironments
- New requirements for conformal coatings
- New informative section explaining how to determine the working voltage of a mains circuit

Modification Details

Please see the linked files on the following page for details about the modifications to meet the IEC 61010-1 3rd edition.

Product Series	Modification Effective Date	Publication number
Temperature Controllers		
E5_C-800	September 2013	2013E007A
E5_Z, E5_Z-PRR, E5CSL, E5_WL	September 2013	2013E008A
E5L and E5_R	September 2013	2013064AE
E5_C, E5_N, E5_N-H, E5_N-HT	September 2013	2013065AE-1
E5CB, E5CS-U, E5CSV	September 2013	2013068AE-1
Counters		
H7_X, H7E_, H7GP, H7HP, H7CZ, H8GN	September 2013	2013067AE-1
Weekly Timers		
H5F	September 2013	2013066AE-1