



AUSTRALIAN RAIL TRACK CORPORATION LTD

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Discipline
Engineering Standard – NSW

Category
Signalling

Title
**Specification - General Requirements for
Labelling of Equipment**

Reference Number
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Document Control

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The technical content of this document has been approved by the relevant ARTC engineering authority and has also been endorsed by the ARTC Safety Committee.

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About This Standard

This Specification describes the general requirements for identification labelling to be provided on all items of electronic, electrical and electro-mechanical signalling equipment supplied to Australian Rail Track Corporation or contractors to Australian Rail Track Corporation.

Document History

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List of Amendments –

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1.2	06/05/2005	All	Document reformatted

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1. Introduction

This Specification describes the general requirements for identification labelling to be provided on all items of electronic, electrical and electro-mechanical signalling equipment supplied to Australian Rail Track Corporation or contractors to Australian Rail Track Corporation.

This document shall be read in conjunction with the particular specification which refers to it. The minimum general requirements expressed herein shall be augmented or reduced by the requirements of the particular specification.

2. Labels

2.1. Equipment Identification

Each unit shall be clearly identified by means of a suitable label permanently affixed to the outside of the unit, bearing the information listed in paragraph 3.2 below.

On very small units, a reduced amount of label information may be permitted, as described below.

Labels and printing shall be compact in size, but large enough to be read with normal eyesight at a distance of 600 mm. This size requirement will be relaxed where a label of this size would be too large to fit the item of equipment.

2.2. Terminal Identification

Terminals for external connections on electrical equipment shall be clearly identified with their number and function, by means of suitable permanent labels affixed adjacent to each terminal.

Enclosed transformers and other nominated units shall be fitted with a schematic diagram as described in paragraph 3.2 below. This may, if convenient, form part of a unit's main identification label.

2.3. Materials and Fixing

- Labels shall be of rigid metal or engraved plastics.
- Flexible labels of paper, metal or plastic film are not acceptable.
- On nominated items of equipment, the information may be applied directly to the surface of the unit.
- Labels shall be affixed by permanent means such as screws, rivets or other mechanical fixings. The use of adhesives that are subject to softening or deterioration due to aging or heat is not acceptable.
- Inscriptions shall be applied by stamping, engraving, silk-screen printing, photo anodising or equivalent permanent process. Inscriptions that may deteriorate due to fading or abrasion are not acceptable.

2.4. Labelling on Packaging

Where it is specified that an item is to be delivered in some form of packaging, each package shall be labelled as specified in paragraph 3.2 below.

3. Label Information

3.1. English Language

All label inscriptions shall be clearly understandable, unambiguous, and written in English language.

3.2. Information on Labels

Equipment identification labelling shall include at least the first four items of information listed below. The other items shall be included where applicable, and where the size of the unit allows for the provision of more detailed information.

- Identification of Manufacturer
- Year and month of manufacture
- Serial number
- Model and version number
- Specification
- Nominal output voltage and output current
- Input voltage, input current
- Schematic diagram
- Component overlay (on printed circuit modules)

3.3. Serial Numbers

Each signalling safety relay and electronic module, and nominated non-vital electronic module shall be labelled with a unique serial number.

3.4. Schematic Diagram

The schematic diagram shall show input and output terminals, terminal functions and nominal terminal voltages. On items other than enclosed transformers, the schematic diagram shall be provided only when specifically requested.