

## NEW EQUIPMENT AND SYSTEM APPROVAL CERTIFICATE

### Certificate No. S 09-1609-194

**Approval date** 20/01/2017  
**Approved by** GM Technical Standards  
**Report no.** TAS 09-1609-194MRD  
**Report date** 09/09/2016

*This certificate is issued to*

**Supplier** MRD Rail Technologies Pty Ltd.  
235 South Street, Cleveland  
QLD, Australia 4163

*In respect of*

**Manufacturer** MRD Rail Technologies Pty Ltd.  
**Product description** MRD RelayDoc  
**Item identification** Refer to Approved Item List for full details.

**Application** ARTC Network Wide

**Relevant Standards** SPS 01 Standard Requirements for Signalling Electronic Systems  
SPS 02 Environmental Conditions  
SPS 05 Electrical & Electronic Components (Ratings & Construction Requirements)  
ESM-05-11 Vital Signalling Relays  
ESI-05-15 Testing BR930 series Relays using the MRD RelayDoc Test Tool

### Conditions of Approval

- a. Suitable for housing classification A1 to B3 only, as per specification SPS 02. Not suitable for mounting in metal equipment cupboards (location cases) without specific temperature control features. Only suitable for operating temperatures at -20°C to 60°C.
- b. Testing of relays must only be carried out in the relays normal operating position.
- c. For use in accordance with ARTC specifications and manufacturer's instructions.
- d. Only approved versions of software shall be loaded onto the RelayDoc by authorised personnel.
- e. Units and components shall only be transported in the approved shock-resistance carry case provided by MRD or

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- other suitable shock-resistant case.
- f. RelayDoc shall be calibrated before every use of the unit via the self-calibration block.
  - g. RelayDoc is only to be used with BR-930 style relays (as per attachment 6) - QTD timers cannot be tested.
  - h. Wall-mounted RelayDocs will be required to have the 1R Reference Base plugged in when the unit is not in use. Affixing the Reference Base will reduce the likelihood of contaminants/dust entering the test base when not in use.
  - i. RelayDoc only to be repaired by the manufacturer (MRD).

*A general condition of approval is that the supplier remains accredited to ISO 9001 specifically for these products and ARTC is advised on a 12 monthly basis that accreditation is current. ARTC reserves the right to conduct its own audit of the manufacture and supply of these components to AS 19011.*

*Any subsequent change to the design, materials or manufacturing process is not covered by this approval. The manufacturer should notify ARTC of any modification or changes in order to obtain a valid updated certificate.*

**Note/Comments**                      NIL.

**Issue date**    20 January 2017

**Expiry date**    N/A

**Issued by**

**John Furness**   
**ARTC Manager Standards**

## Approved Item List

MRD (Stock Code)	MRD (Version)	Product Description	Software Version
RelayDoc-HV	01.C.2	RelayDoc Automated BR930 Relay Tester (includes software, BR930 Test Base with automatic pin code detection) – 130V (to be used for AC and DC relay testing)	1.23
RD-CK	1.0	RelayDoc Calibration Kit	N/A
RD-CASE	-	Shock-resistant carry case	N/A