

NEW EQUIPMENT AND SYSTEM APPROVAL CERTIFICATE

Certificate No. S 05-1508-173

Approval date 30/3/2016
Approved by GM Technical Standards
Report no. TAS 05-1508-MRD173
Report date 22/12/2015

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 EarthLogger
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)
 ESD 09 01 Signalling Power Systems
 SCP 03 Signalling Power Systems

Conditions of Approval

1. Suitable for housing classification A1 to B3 only, in accordance with SPS 02. Not suitable for mounting in metal equipment cupboards (location cases) without specific temperature control features. Only suitable for operating temperatures at -25°C to 60°C.
2. For use in accordance with ARTC specification SDS 25 and standard typical circuits only.
3. Internal relay in EarthLogger to be operated (and designed) in energised, failsafe mode.
4. Only type approved firmware versions shall be loaded onto the EarthLogger by authorised personnel only.
5. Only components from Table 1 may be utilised

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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

Expiry date

Issued by

John Furness

ARTC Manager Standards



Table 1 - Approved Item List

Catalogue No.	Product Description	Supply Voltage	Modem	Firmware Version (Application Management)	Conditions of Use
ESL-A	EarthSense, 1 Channel Insulation Monitor & Logger LAN + RS485	Universal Supply 85-265 V AC, 100-200 V DC	-	v01_00	
ESL-B	EarthSense, 1 Channel Insulation Monitor & Logger LAN + RS485	LV Supply 9-36V DC	-	v01_00	
ESL4-A	EarthSense, 4 Channel Insulation Monitor & Logger LAN + RS485	Universal Supply 85-265 V AC, 100-200 V DC	-	v01_00	
ESL4-B	EarthSense, 4 Channel Insulation Monitor & Logger LAN + RS485	LV Supply 9-36V DC	-	v01_00	
ESL4-AM	EarthSense, 4 Channel Insulation Monitor & Logger LAN + RS485	Universal Supply 85-265 V AC, 100-200 V DC	3G/ 4G Modem	v01_03	
ESL4-BM	EarthSense, 4 Channel Insulation Monitor & Logger LAN + RS485	LV Supply 9-36V DC	3G/ 4G Modem	v01_03	

