

NEW EQUIPMENT AND SYSTEM APPROVAL CERTIFICATE

Certificate No. S 05-2815-RE-171

Approval date 11/10/2016
Approved by GM Technical Standards
Report no. TAS 05-2815-RE-171
Report date 05/10/2016

This certificate is issued to

Supplier Aldridge Railway Signals Pty Ltd,
44 Adderley Street East,
Lidcombe 2141
New South Wales
Australia

In respect of

Manufacturer Railway Equipment Co.
Product description Cragg Railcharger
Item identification Refer to Approved Item List for full details.

Application Network Wide
Relevant Standards SPS 02 Environmental Conditions
SPS 05 Electrical & Electronic Components (Ratings & Construction Requirements)
ESD-03-01 Level Crossing Design

Relevant equipment manuals Cragg Railcharger Instruction Manual – R520945A Rev.F

Conditions of Approval

1. For use in accordance with ARTC specification SPS02 Environmental Conditions, Attachment 1 – typical circuit, ESD-03-01 Level Crossing Design, and SCP 04 'Lightning and Surge Protection Requirements' for Electronic equipment subject to Category C exposure.
2. Only component part numbers with firmware versions from accompanying Model Specifications list in Attachment 3 may be utilised (Specified order numbers to be used when ordering from Aldridge Rail)

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3. Monitoring software only for use under the agreed terms of the RRAMAC Executable Code License Agreement (V5).
4. 40DTC-R-12V charger is the default charger for use at Level Crossings for use with Ni-Cd batteries.
5. Installation and maintenance to be in accordance with the 'Cragg Railcharger Instruction Manual' R520945A Rev.F 10/05/2016'.
6. Typical circuit 'Cragg Rail Charger 40DTC-12V' located on the Engineering Intranet/Extranet to be used when producing signal circuits.
7. Any subsequent change to the design, materials or manufacturing process is not covered by this approval. Any alteration to or change of manufacturer of the hardware or configuration must be forward for review and acceptance by ARTC.
8. 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 supply of these components to AS 9001:2003.

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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 N/A

Issued by

John Furness 
ARTC Manager Standards

(Aldridge Rail) Ordering number:	Model No.	Model Part No.	Firmware Version:	Cells	Input Amps	Output Amps	Output Volts	Dimension Width x Height x Depth (cm)	Comment
BC000	10DTC-R-12V	520915A	160725	5-8 Lead Acid, 5-12 Ni-Cd	2.1	10	7 – 18.8V	30.5 x 25.7 x 22.2	
BC001	20DTC-R-12V	520925A	160725	5-8 Lead Acid, 5-12 Ni-Cd	4.0	20	7 – 18.8V	30.5 x 25.7 x 22.2	
BC002	40DTC-R-12V	520945A	160725	5-8 Lead Acid, 5-12 Ni-Cd	7.0	40	7 – 18.8V	33 x 34.9 x 29.8	Default Level Crossing charger
BC003	60DTC-R-12V	520965A	160725	5-8 Lead Acid, 5-12 Ni-Cd	9.0	60	7 – 18.8V	33 x 34.9 x 29.8	
BC004	30DTC-R-24V	520935A	160725	11-18 Lead Acid 19-26 Ni-Cd	10	30	24 – 42.5V	33 x 34.9 x 29.8	
BM001	ICM-CP-LV	9807-0001-2V	160915	-	-	-	-	10.2 x 5.1 x 3.2	1 monitor per cell. Only for use with cells of 1-3VDC