

Certificate of Acceptance

Certificate No: PA05/05450

Issue: 1

Valid from: 17/10/2012

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Product	CAT 4/Genny 4 Cable Avoidance Tool
Manufacturer	Radiodetection Ltd, Western Drive, Bristol, BS14 0AF

Network Rail Acceptance Panel (NRAP) hereby authorises the product above for use on railway infrastructure for which Network Rail is the Infrastructure Manager under the ROGS regulations.

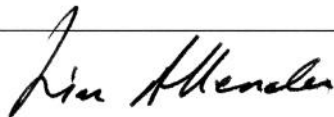
Failure to abide by the requirements in this Certificate of Acceptance may invalidate the certificate, thereby restricting the right to operate the product and / or limiting the future supply and deployment of the product on the infrastructure.

This certificate can only be amended by Network Rail Asset Management Services. Any alterations made by a different person will invalidate the entire certificate.

Scope of Acceptance

Acceptance of Cat 4 cable avoidance tool incorporating the Genny 4 that increases the signal output of the Cat 4 allowing deeper scanning.

Authorised by



James Allenden
Professional Head of Plant & T&RS

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1. SPECIFIC CONDITIONS

The following Conditions are specific to the approved product/s contained within Section 2 and Appendix B of this certificate. These conditions must be adhered to in addition to the Network Rail General Conditions contained within Appendix A 'Certificate Of Acceptance – General Conditions'. Failure to adhere to these conditions may result in the withdrawal or suspension of Acceptance of some, or all of the items contained within the accepted configuration.

Manufacturer

- 1) See Appendix A

User

- 1) Equipment must only be used by authorised personnel in accordance with mandatory rules and regulations, equipment operating instructions, and the operators declared safe system of work for ALL operational circumstances on Network Rail infrastructure.
- 2) Equipment Operator(s) shall ensure that equipment is maintained in accordance with equipment manufacturers recommendations detailed below:
- 3) Operating requirements are included in the document 90/UG092ENG/03
- 4) Equipment Operator(s) shall ensure that all staff required to use the equipment are suitably trained.
- 5) Appropriate PPE must be worn at all times whilst the equipment is being operated.
- 6) Unit weight is 2.3Kg Cat 4
2.7Kg Genny 4
- 7) Users to ensure that the unit is always within calibration.

2. PRODUCT CONFIGURATION

System or Complete Assembly

Part No.	Description	PADS No.
Transmitter		
10/GENNY4EN	Genny4	094/011700
Receivers		
10/CAT4EN09	C.A.T4 Cable Avoidance Tool	094/011701
0/CAT4EN29	C.A.T4 with Strike Alert	094/011702
10/CAT4+EN11	C.A.T4+ Cable Avoidance Tool, depth estimation	094/011703
10/CAT4+EN31	C.A.T4+ with Strike Alert	094/011704
10/ECAT4EN39	eC.A.T4 Cable Avoidance Tool, data logging	094/011705
10/ECAT4EN69	eC.A.T4 with CALSafe	094/011706
10/ECAT4EN59	eC.A.T4 with Strike Alert	094/011707
10/ECAT4EN89	eC.A.T4 with Strike Alert and CALSafe	094/011708
10/ECAT4+EN41	eC.A.T4+ Cable Avoidance Tool, depth estimation, data logging	094/011709
10/ECAT4+EN71	eC.A.T4+ with CALSafe	094/011710

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Part No.	Description	PADS No.
10/ECAT4+EN61	eC.A.T4+ with Strike Alert	094/011711
10/ECAT4+EN91	eC.A.T4+ with Strike Alert and CALSafe	094/011712
C.A.T4 & Genny4 Packages:		
10/ELECPACK4-UK	Electricians Accessory Pack - UK	094/011713
10/MAXIPACK4-UK	Maxi Accessory Pack - UK	094/011714
10/BUILDPACK4-EN	UK Builders Accessory Pack	094/011715
10/MOUSEPACK4-EN	Mouse Accessory Pack	094/011716
10/PLUMBPACK4-UK	Plumber's Accessory Pack - UK	094/011717
10/BAGPACK4-UK	Genny4 and Bag Pack - UK	094/011718
C.A.T4 & Genny4 Accessories:		
09/310	Earth Reel	094/011719
04/AC1453N1	Earth Stake	094/011720
10/GEN4KIT	Genny4 Connection Kit	094/011721
09/RD4320-LMTX	Genny4 Direct Connection Lead	094/011722
10/TC2136-RD4	Small Signal Clamp (50mm)	094/011723
10/TC1769-RD4	Standard Signal Clamp (100mm)	094/011724
10/RD4GT0235	Large Signal Clamp (220mm)	094/011725
10/EXT	Signal Clamp Extension Rod	094/011726
10/GG1540-LPC	Live Plug Connector (3 wire)	094/011727
10/AC1231-G33-LCC-2	Live Cable Connector	094/011728
10/SC0412-33R	Standard Sonde 33kHz (C Sonde / Mega Mouse) Depth 5m	094/011729
10/S18/82-33-000	S18A Sonde 33kHz	094/011730
09/S18/82-33-000	S18 Sonde without end cap	094/011731
10/SD0322-33R	Slim Sonde 33kHz	094/011732
10/SD0223	Slim Sonde Plain End Cap	094/011733
10/SD0268	Slim Sonde Blank End Cap	094/011734
10/SD0320	Slim Sonde M10 Stud End Cap	094/011735
10/SU0335	Spring Coupling M10 Male	094/011736
10/FLEXRODF60	Flexrod 9mm 60m	094/011737
02/FR0818N1	Flexrod Coupler joins two Flexrods	094/011738
02/SU0341	Wards Rod Connector, 8mm, 1/2" x 10 BSW, Female	094/011739
02/SU0342	Wards Rod Connector, 6mm, 1/2" x 12 BSW, Female	094/011740
02/SU0676	Lockfast Connector, 3/4" x 10 BSW	094/011741
10/TRACE50-*	FlexiTrace 50m	094/011742
10/CAT/GEN2U	C.A.T4/Genny4 Carry Bag	094/011743

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3. ASSESSED DOCUMENTATION

Reference	Title	Date and Applies to Cert. issue No.	
----	CCMS File	----	1

4. CERTIFICATE HISTORY

Issue Number	Date	Issue History
1	17/10/2012	First accepted for use.

5. DISTRIBUTION

Manufacturer

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Appendix A – General Conditions

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1) Manufacturer

The Manufacturer shall:

- 1) Ensure that all products supplied comply with the standards defined in the Acceptance Requirements or otherwise documented as part of the assessment, including meeting the reliability requirements included in the Acceptance Requirements and in any deed of warranty for the relevant certificate number.
- 2) Notify Network Rail Technology Introduction Group:
 - a. Within 48 hours, of any deficiencies affecting the quality, functionality or safety integrity of the product (including corrective action undertaken or proposed).
 - b. Of any intended change to the accepted product; changes include:
 - i. a change to the product configuration (to the actual product or its application);
 - ii. a variation to or addition of manufacturing locations or processes;
 - iii. a change in the name or ownership of the manufacturing company;
 - iv. any changes to the ability or intention to support with technical services, spares or repairs.
- 3) The Manufacturer shall provide Network Rail Technology Introduction Group at least 12 (twelve) months notice of its intention to discontinue supply or to provide such notice as is reasonable if such discontinuance is outside its control and will offer the opportunity of a Last Time Buy to Network Rail together with date for last order placement and supply of the parts affected. The introduction of proposed alternative products shall be communicated to the Network Rail Technology Introduction Group.
- 4) Provide further copies of operating and maintenance manuals to purchasers / users of the product as necessary (including certificates of conformance, calibration etc).
- 5) Provide further copies of training manuals and an appropriate level of training to purchasers or users of the product as necessary.
- 6) Where applicable, specialist technical support, repairs and servicing of the product shall be carried out by the Original Equipment Manufacturer (OEM) or authorised agent only.
- 7) Network Rail may request information from the manufacturer to prove product compliance with clauses 1 and 2 above and reserve the right to suspend and/or withdraw any application where information is not forthcoming within a reasonable timeframe.
- 8) In accordance with Network Rail's Quality Assurance Policy Statement 2011, where the specification and/or Product Acceptance Certificates specify quality assurance classifications (QA1 to QA5) for the products, the manufacturer shall comply with the specified level of quality assurance for each product and allow Network Rail access to carry out its quality assurance checks.
- 9) The manufacturer shall give Network Rail's representatives access at all reasonable times to its premises and allow them to inspect its quality systems and production methods and, if requested, to inspect, examine and test the products both during and after their manufacture and the materials being used in their manufacture.

2) Conditions of Use

Specifiers, installers, operators, maintainers, etc. using the product shall:

- 1) Comply with the certificate conditions. If a condition is not understood guidance must be sought from Network Rail Technology Introduction Group.
- 2) Check that the application of use complies with the relevant certificate's scope of acceptance.
- 3) Report any defect if it is a design or manufacturing fault likely to affect performance and/or the safe operation of the railway in writing to Network Rail Technology Introduction Group.
- 4) Inform Network Rail Technology Introduction Group in writing of a change to the product configuration (or to the actual product or its application).
- 5) Operate, maintain and service the product in accordance with Network Rail standards and Operation and Maintenance manuals as appropriate.
- 6) Be appropriately trained and authorised for the installation, maintenance and use of the product.
- 7) Only send products for repair or reconditioning to the Original Equipment Manufacturer (OEM) or authorised agent.
- 8) Users are to be aware that Product Acceptance is not a substitute for design approval.

3) Compliance

Railways and Other Guided Systems (ROGS) Regulations

- 1) Where the product is to be used in areas where Network Rail is not the Infrastructure Manager (e.g. leased stations), the sponsor shall additionally obtain formal consent from the Infrastructure Manager for the locality where the equipment is to be installed. This may include a requirement for additional safety verification. The decision of that Infrastructure Manager is binding, and cannot be overridden by Network Rail except by the escalation processes established in the ROGS regulations
- 2) As required in Railway Group Standard GE/RT8270, at each use of this product the project or group responsible for installation and commissioning shall be required to demonstrate compatibility with:
 - a. All rail vehicle types that have access rights over the area affected by the change
 - b. Infrastructure managed by others
 - c. Neighbours.

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Appendix A – General Conditions

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Railway Interoperability Regulations

- 3) For interoperable constituents of systems the project or group responsible for installation and commissioning shall be required to demonstrate compliance with the relevant Technical Specifications for Interoperability (TSI) where appropriate.
- 4) An authorisation from the national safety authority (i.e. the Railway Safety Directorate of the Office of Rail Regulation) is required before the equipment is to be used in revenue earning service.

4) Supply Chain Arrangements

- 1) Certificates of acceptance do not imply any particular quantity of supply nor any exclusivity of supply.
- 2) Products may be purchased by Network Rail or its agents, suppliers or contractors.
- 3) Manufacturers should note that it is not necessary to enter into any exclusive supply arrangements with resellers or other suppliers.



Certificate of Acceptance Appendix B – Configuration Change Log

System or Complete Assembly

Manufacturers Part No.	Description	CAT No.	CAT No. Requested By	CAT No. Authorised By	Date Allocated	PA Cert Issue No.	CCMS Version No.

Maintenance Spares and Line Replaceable Units

Manufacturers Part No.	Description	Hardware Version/ Revision	CAT No.	CAT No. Requested By	CAT No. Authorised By	Date Allocated	PA Cert Issue No.	CCMS Version No.

