

Certificate of Acceptance

Certificate No: PA05/05312

Issue: 1

Valid from: 17/10/2012

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| | |
|---------------------|--------------------------------|
| Product | RD 8000 Cable Detection system |
| Manufacturer | Radiodetection Ltd, |

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 the RD8000 cable avoidance tool this unit now replaces the expired RD4000.

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/RD8K-OPMAN-ENG_01
- 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 1.9Kg
- 7) User must always ensure that the unit is within calibration.

2. PRODUCT CONFIGURATION

System or Complete Assembly

| Part No. | Description | PADS No. |
|-------------------------------|-------------------------------|------------|
| Receivers | | |
| 10/8KPXL | RD8000 PXL | 094/011850 |
| 10/8KPXLB | RD8000 PXL with i-LOC | 094/011851 |
| 10/8KPD | RD8000 PDL | 094/011852 |
| 10/8KPDLB | RD8000 PDL with i-LOC | 094/011853 |
| Transmitter | | |
| 10/GENNY4EN | Genny4 | 094/011854 |
| Sondes and Accessories | | |
| 10/SC0412-33R | Standard Sonde 33kHz Depth 5m | 094/011855 |
| 10/SA0337-33R | Sewer Sonde 33kHz Depth 8m | 094/011856 |
| 10/SB0338-33R | Super Sonde 33kHz Depth 15m | 094/011857 |
| 10/SD0322-33R | Slim Sonde 33kHz Depth 3.5m | 094/011858 |
| 10/SD0223 | Slim Sonde Plain End Cap | 094/011859 |
| 10/SD0268 | Slim Sonde Blank End Cap | 094/011860 |
| 10/S18/82-33-000 | S18A Sonde 33kHz | 094/011861 |

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| Part No. | Description | PADS No. |
|------------------------------------|---|------------|
| 10/S18/173-33-000 | S18B Sonde 33kHz | 094/011862 |
| 10/SU0335 | Spring Coupling M10 Male | 094/011863 |
| 02/FR0818N1 | Flexrod Coupler (Joins two Flexrods together) | 094/011864 |
| 02/FR0336 | Flexrod Blank for Machinery | 094/011865 |
| 02/SU0339 | Plastic or Cane Rod Connector, Male | 094/011866 |
| 02/SU0340 | GD Rod Connector. 3/4" (19mm) x 12 BSF, Female | 094/011867 |
| 02/SU0341 | Wards Rod Connector, 3/4" (19mm) x 10 BSW, Female | 094/011868 |
| 02/SU0342 | Wards Rod Connector, 1/2" (13mm) x 12 BSW, Female | 094/011869 |
| 02/SU0676 | Lockfast Connector, 3/4" (19mm) x 10 BSW | 094/011870 |
| 10/TRACE50 | FlexiTrace 50m | 094/011871 |
| 10/FLEXRODF120 | 9mm 120m Flexrod | 094/011872 |
| 10/FLEXRODF60 | 9mm 60m Flexrod | 094/011873 |
| Receiver Accessories | | |
| 10/AC2645-4KRX | High Gain Stethoscope | 094/011874 |
| 10/AC2643-4KRX | Small Stethoscope | 094/011875 |
| 10/AC2644-4KRX | Large Stethoscope | 094/011876 |
| 04/LP01 | Headphones | 094/011877 |
| 10/TC2136-4KRX | 50mm (2") Receiver Clamp | 094/011878 |
| 10/TC1769-4KRX | 100mm (4") Receiver Clamp | 094/011879 |
| 10/CM2054-4KRX | CD Receiver Clamp | 094/011880 |
| 10/AC2666-4KRX | CD Stethoscope | 094/011881 |
| 10/RD7K8KBAG | Soft Carry Bag | 094/011882 |
| 10/RD7K8KRBAG | Soft Carry Bag with Wheels New | 094/011883 |
| 10/RD7K8KCASE | Hard Case | 094/011884 |
| Batteries and Rechargeables | | |
| 04/MN1300 | Alkaline Battery for RD7000, RD8000, Tx-1, Tx-3, Tx-10 (LR20, MN1300) | 094/011885 |

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3. ASSESSED DOCUMENTATION

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

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. |
|------------------------|-------------|----------------------------|---------|----------------------|-----------------------|----------------|-------------------|------------------|
| | | | | | | | | |

