

Certificate of Acceptance

OFFICIAL
PA05/07650

Manufacturer:
Prolec Ltd

Issue : 2
Valid From : 23/07/2025

Prolec PME RCI

Product Description

The Prolec PME Rated Capacity Indicator and/or Movement Limiting Device is for operation on Non-rail borne (construction) plant and equipment used on or near Network Rail Infrastructure.

This certificate includes PME with virtual avoidance zone technology supported via approved external data source as per User Note 16.

The complete system is classified as Low-Performance for use in strictly Low-Performance areas of as per M&EE COP0032.

Product Image



Scope of Acceptance

Full Acceptance

Product approved for use on non-rail borne plant subject to appropriate integration testing in accordance to the requirements of RIS-1530-PLT and in accordance with the terms listed on this certificate and any associated reference documentation.

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

Reviewed by:

Authorised by:



Aamir Malik
Product Acceptance Coordinator



Jordan Skey
Network Technical Head of Plant

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Specific Conditions

The following Conditions are specific to the approved product/s contained within this Certificate. These conditions must be adhered to in addition to the Network Rail General Conditions contained within the "General Terms and Conditions" section. 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) The manufacturer shall inform Network Rail of any changes made to the machine.
- 2) The manufacturer shall inform both Network Rail and the user of any previously undeclared hazards that the manufacturer becomes aware of after issuance of this certificate.

User

- 1) PME is classified as a Low Performance MLD and RCI. (**LP-MLD**)
- 2) This certificate can only be amended by Network Rail Product Acceptance, the Network Technical Head or nominated delegate. Any alterations made by other persons will invalidate the entire certificate.
- 3) 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.
- 4) Full pre-use inspections **SHALL BE** conducted before use and equipment operators must ensure the equipment is in a safe condition to work before undertaking any equipment operations.
- 5) The equipment **SHALL ONLY** be used in accordance with OEM instructions.
- 6) The equipment **SHALL ONLY** be maintained by trained and competent personnel in accordance with the OEM maintenance procedures and Infrastructure Plant Manual NR/L2/RMVP/0200.
- 7) Full pre-use inspections **SHALL BE** conducted before use and machine operator/drivers must ensure the machine is in a safe condition to work before undertaking any machine movements
- 8) When using this equipment for lifting operations a lift plan **SHALL BE** in place.
- 9) The equipment **SHALL ONLY** be installed by competent personnel.
- 10) Installation of this equipment **SHALL NOT** be considered as compliant to the requirements of RIS-1530-PLT in regards to MLDs and RCIs without appropriate integration tests overseen by an independent competent body.
- 11) Prior to procurement by Network Rail the product **SHALL BE** assessed against the requirements for DfR in accordance with NR/L2/RSE/0005.
- 12) Defects occurring to any safety critical system, or system which may subsequently cause a safety concern **SHALL BE** rectified before the equipment continues to operate or transit on NR managed infrastructure. If this occurs during operation the equipment must be safely transited to the nearest available position of safety to await repair.
- 13) The equipment **SHALL ONLY** be installed and maintained by trained and competent personnel in accordance with the OEM maintenance procedures and Infrastructure Plant Manual NR/L2/RMVP/0200.
- 14) The equipment **SHALL ONLY** be used in-line with site, task or location specific safe systems of work and work plans in accordance with Infrastructure Plant Manual NR/L2/RMVP/0200 and GE/RT8000 Rulebook.
- 15) Plant to which this equipment is fitted **SHALL ONLY** work ALO in accordance with a Safe System of work per NR/L2/RMVP/0200/P501 and in accordance with NR/L2/RMVP/0200/P513 and where applicable NR/L2/RMVP/0200/P521.
- 16) Prolec PME RCI system **SHALL ONLY** use assessed and approved, external sources of avoidance zone data.
Prolec PME RCI with software version 2.2.34.0 may be used with the following approved GNSS mapping system:
 - Trimble SiteGuard Pro
- 17) Installation of this equipment SHALL NOT be considered as compliant to the requirements of RIS1530-PLT in regard to MLDs and RCIs without appropriate integration tests overseen by an independent competent body.

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Product Configuration

System or Complete Assembly

Part No.	Description	Catalogue No.
PME 100	Height Limiter	0094/002590
PME 105	Height Limiter, with proportional valve control	0094/002591
PME 200	Rated Capacity, Height and Radius Limiter	0094/002592
PME 205	Rated Capacity, Height and Radius Limiter, with proportional valve control	0094/002593
PME 300	Slew Limiter (angular slew only)	0094/002594
PME 400	Slew, Height and Radius limiter	0094/002595
PME 405	Slew, Height and Radius limiter, with proportional valve control	0094/002596
PME 500	Rated Capacity, Slew, Height and Radius Limiter	0094/002597
PME 505	Rated Capacity, Slew, Height and Radius Limiter, with proportional valve control	0094/002598
SNRX3X	Trimble On-Machine Radio	0094/002601
SNM941	Trimble On-Machine Modem	0094/002602
MS975	Trimble GNSS Receiver	0094/002603
EC520W	Trimble ECU	0094/002604
GS520	Trimble IMU	0094/002605
TD540	Trimble Touch Display	0094/002606

Software

Part No.	Description	Version No.
2.2.34.0	Prolec PME RCI with Trimble Earthworks GNSS mapping	N/A

Assessed Documentation

Reference	Title	Doc. Rev.	Date and Applies to Cert. issue No.	
D-TTC-X-E-02-006	HY-TTC_30_Family_EC_Declaration_of_Conformity_HY-TTC_30S	-	20/2/2019	1
SHW-264	PME Rail - PS-1001 Compliance (EMC Assessment)	1.1	13/3/2019	1
TRA-008684-01	Display unit EMC test report	1	13/2/2012	1
TRA-028484-38-00A	Display unit EMC test report	1.0	22/12/2015	1
2006-42-EC EHSR-PME SoC	EHSR Statement of compliance		-	1
CF444/01/008	HAZID Report	1.0	9/7/2010	1
	Network Rail Standards Applicability	-	-	1
EN474-1 2006 + A6 2019 PME SoC	Statement of compliance	-	-	1
EN474-5 2006 + A3 2013 PME SoC	Statement of compliance	-	-	1

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Reference	Title	Doc. Rev.	Date and Applies to Cert. issue No.	
EN12077-2 1999+A1 2008 PME SoC	Statement of compliance	-	-	1
-	Hazard Log PME500EL	-	-	1
PA05-07650 - PME RCI MLD	Network Rail Plant Product Acceptance Assessment Level Application	-	6/9/2022	1
periodic log	Sample data logger download	-		1
PME-06 System DFMEA v1.0	Failure Modes Effect Analysis	1	20/11/2020	1
PMEOT-02	PME 500/505 conformity to Machinery Directive 2006/42/EC	1.1	23/11/2022	1
-	ISO9001 Certificate	1	18/5/2021	1
-	RIS-1530-PLT Issue 6 clause by clause check sheet	-	04/11/2022	1
-	Risk Matrix and Safety Functions	-	-	1
SC-PME200500i2	Declaration of conformity	-	27/6/2016	1
SC-PME205505i1	Declaration of conformity	-	25/5/2021	1
-	AEGIS Site inspection report	-	12/12/2022	1
-	NR PA standard conditions checklist	-	-	1
UK014272	Prolec Limited - 9K Certificate - exp. 21-02- 2027		14/02/2024	2
SC-PME200500i3	Prolec Declaration of Conformity		15/05/2023	2
EC520-W	Trimble EC520-W Declaration of Conformity		17/11/2020	2
GS520	Trimble GS520 Declaration of Conformity		14/05/2021	2
TD540	Trimble TD540 Declaration of Conformity		17/07/2024	2
PMETE-06	PMETE-06 - Functional Safety Plan 1.1	--	--	2
PMETE-07	System Definition		09/08/2024	2
PMET-08	Inhibit Positioning subsystem FMEA	1.21	22/07/2024	2
PMETE-09	EN13849-1 2015 Performance Level Analysis		06/09/2024	2
PMETE-09 Addendum	PME 505 with Trimble Earthworks (TE)		06/09/2024	2
-	Trimble Hardware Block diagram			2
PMETE-19	Intellectual Property Statement 1.0		28/10/2024	2
PMETE-11	System Safety Requirements 1.1	1.1	18/12/2024	2
PMETE-13	Hazard and Risk Analysis	1.3	01/05/2025	2
-	EMC Documentation / Technical file	--	--	2
TRUK/B 24/114	TRUK Principal Questions Report	2.0	11/03/2025	2
TRUK/TN 24/479	TRUK RIS-1530-PLT CxC	1.1	11/03/2025	2
TRUK/TN 24/257	TRUK Prolec Ltd PME RCI_PA Checklist	2	--	2

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Manuals and Training Materials

Reference	Title	Doc. Rev.	Date and Applies to Cert. issue No.	
562500-000 PME500	PME User Manual	1.3	January 2022	1
562010-003	PME Installation Manual	7.0	February 2022	1
562500-000 PME500	PME User Manual	1.4	October 2024	2
562010-003	PME Installation Manual	9.0	October 2024	2
562000-200	PME QuickStart Guide - TRIMBLE	1.5	--	2
Trimble SiteGuard Pro - User Guide rev1.1	Trimble SiteGuard Pro– Civil Construction - User Guide	1.1	April 2025	2
Trimble SiteGuard Pro - Installation Guide rev1.2	Trimble SiteGuard Pro – Civil Construction - Installation Guide	1.2	April 2025	2

Certificate History

Issue	Date	Issue History
1	28/04/2023	First accepted for use.
2	23/07/2025	Full approval added for Prolec PME RCI with SiteGuard Pro GNSS avoidance zone mapping.

Contact Details

Manufacturer

Prolec Ltd
www.prolec.co.uk

Applicant

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Lead Reviewing Engineer

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General Terms & Conditions

1) General

- 1) This certificate can only be amended by Network Rail Product Acceptance, the relevant Network Technical Head or nominated delegate. Any alterations made by a other persons will invalidate the entire certificate.
- 2) 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.
- 3) If this is a Trial Certificate which includes a Trial Monitoring Period or Trial Expiry date, evidence should be submitted to meet the included trial criteria before the date has passed for the Lead Reviewing Engineer to assess if the product can be given Full Acceptance. If this cannot be achieved, the Product Acceptance team should be contacted via prodacc@networkrail.co.uk to seek guidance. If this is a Full Certificate and includes a review date, the Product Acceptance team should be contacted via prodacc@networkrail.co.uk to seek guidance.

2) 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 Network Rail Design for Reliability Standard (DFR) NR-L2-RSE-0005 and in any deed of warranty for the relevant certificate number.
- 2) Notify Network Rail Product Acceptance in writing (email prodacc@networkrail.co.uk):
 - 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 Product Acceptance or National Supply Chain (NSC) 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 Network Rail Product Acceptance.
- 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, where the specification and/or Product Acceptance Certificates specify quality assurance classifications 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.

3) 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 Product Acceptance.
- 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 Product Acceptance.
- 4) Inform Network Rail Product Acceptance 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.

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4) 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 sponsoring applicant 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 RIS-8270-RST, 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.

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 and Road) is required before the equipment is to be used in revenue earning service.

5) 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.