

Certificate of Acceptance

Certificate No: PA05/04272

Issue: 1

Valid from: 22/03/2011

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Product	ODW-632 RS-422/485 over fibre for multi-drop applications (ODW-632-MM-LC2)
Manufacturer	Westermo – Teleindustri AB SE – 640 40 Stora Sundby Sweden

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.

Scope of Acceptance


- To provide an RS422 interface on a multi drop application
- The ODW is powered from an external 10 – 60VDC PSU and is DIN rail mounted

Specific conditions

Refer to the pages which follow for the product configuration and detailed conditions of use.

Authorised by

 N.D. SNELL

 Richard Stanton
Professional Head - Electrical Power Engineering

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SPECIFIC CONDITIONS

1) Manufacturer

- 1) All new software shall be assessed by Network Rail Electrical Power Engineering as suitable before being used
- 2) Ensure that all products supplied under this certificate 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 this certificate number.
- 3) 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.
- 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 / users of the product as necessary.

2) Conditions of Use

Specifiers, Installers, Users, Maintainers of the product:

- 1) It is the responsibility of the project to confirm that the modem is compatible with the project's Data Terminal equipment (DTE) and is suitable for supporting the intended application.
 - The modem **shall not** be configured for dialup working in any way.
 - The modem **shall not** have its software upgraded.
- 2) Comply with the certificate conditions. If a condition is not understood guidance must be sought from Network Rail Technology Introduction Group.
- 3) Check that the application of use complies with the scope of acceptance.
- 4) 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.
- 5) Inform Network Rail Technology Introduction Group in writing of a change to the product configuration (or to the actual product or its application).
- 6) Operate, maintain and service the product in accordance with Network Rail standards and Operations and Maintenance manuals as appropriate.
- 7) Be appropriately trained and authorised for the installation, maintenance and use of the product.

8) 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

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Manager is binding, and cannot be overridden by Network Rail except by the escalation processes established in the ROGS regulations

- 2) At each instantiation of use of this product, the project or group responsible for installation and commissioning shall be required to demonstrate compatibility with rail vehicles, infrastructure managed by others or neighbours, as required in Railway Group Standard GE/RT8270.

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).

4) Supply Chain Arrangements

- 1) This certificate of acceptance does not imply any particular quantity of supply nor any exclusivity of supply.
- 2) The product 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.

5) Product Configuration

Part No.	Description	PADS No.
3650-0701	ODW-632-MM-LC2 modem	092/001175

Note: For complex products and systems, sponsors and manufacturers may be requested to submit a more detailed configuration report to be appended to this certificate.

Software

Part No.	Description	Version No.
4000-8306	Software version	092/001176

6) Assessed Documentation

Reference	Title	Date and Applies to Cert. issue No.	
LLC840A-B Rail Link	Westermo ODW-632-MM-LC2 modem Trial report associated with PA05/04272	22/02/2011	1
	ODW-632 Data Sheet	Undated	1
6650-2253	User Guide ODW-632 Fibre Optic Modem	Undated	1

7) Certificate History

Issue Number	Date	Issue History
1	22/03/2011	First accepted for use.

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8) DISTRIBUTION

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