

Certificate of Acceptance

PA05/06629

Manufacturer:
SELLA CONTROLS

Issue : 6
Valid From : 05-11-2019

SCADA: Tracklink Point-to-Point Controller

Product Description

The application covers the Sella Controls TRACKLINK® P2P (Point-to-Point) Controller.

For conventional point-to-point applications, this device transposes RTU I/O in a distribution location to a remote location such as an OLE Motorised Operated Switch (MOS) or DC Controlled Track Switches (CTS).

A version of the device with modified software has been trialled on DC electrified railways for control of Negative Short Circuiting Devices (NSCD).

Note: the hardware remains unchanged for both applications.

Product Image



Scope of Acceptance

Full Acceptance

The Tracklink P2P Controller has been assessed as compliant with the requirements of Network Rail standard NR/L2/ELP/27229. It is therefore granted full acceptance for network-wide use for control and monitoring of remotely located lineside switchgear when controlled by any SCADA system or when used in conjunction with a local control panel in a master/slave arrangement only.

There is a requirement on the communications medium on the distance between the master and slave units. Twisted pair copper cables can be used for distances under 1km, and for distances over 1km optic fibre communications are to be used. This distance requirement can be removed once the necessary EMC testing demonstrating compliance has been successfully completed.

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



Felix Langley
Professional Head of Power Distribution (HV/LV)

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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) As per the Scope of Acceptance section of this certificate.

User

- 1) As per the Scope of Acceptance section of this certificate.

Product Configuration

System or Complete Assembly – Conventional Point-to-Point Applications Only

Part No.	Description	Catalogue No.
HSD15000/8/AL	Tracklink P ₂ P unit, 8 channel digital I/O, indoor variant. Does not include cable looms	0062/025020
HSD15000/8/AL/W	Tracklink P ₂ P unit, 8 channel digital I/O, indoor variant. Includes 5.0m cable looms for termination.	0062/025021
HSD15000/8/ST	Tracklink P ₂ P unit, 8 channel digital I/O, Outdoor variant. Does not include cable looms	0062/025022
HSD15000/8/ST/W	Tracklink P ₂ P unit, 8 channel digital I/O, Outdoor variant. Includes 5.0m cable looms for termination.	0062/025023
HSD15000/16/AL	Tracklink P ₂ P unit, 16 channel digital I/O, indoor variant. Does not include cable looms	0062/025024
HSD15000/16/AL/W	Tracklink P ₂ P unit, 16 channel digital I/O, indoor variant. Includes 5.0m cable looms for termination.	0062/025025
HSD15000/16/ST	Tracklink P ₂ P unit, 16 channel digital I/O, Outdoor variant. Does not include cable looms	0062/025026
HSD15000/16/ST/W	Tracklink P ₂ P unit, 16 channel digital I/O, Outdoor variant. Includes 5.0m cable looms for termination.	0062/025027

Software – Conventional Point-to-Point Applications Only

Part No.	Description	Version No
P ₂ P Controller S/W	Tracklink P ₂ P controller software (CPU software)	1.0

System or Complete Assembly – NSCD Applications Only

Part No.	Description	Catalogue No.
HSD16000/16/AL	Tracklink P ₂ P unit, 16 channel digital I/O, indoor variant. Does not include cable looms	0062/025044
HSD16000/16/AL/W	Tracklink P ₂ P unit, 16 channel digital I/O, indoor variant. Includes 5.0m cable looms for termination.	0062/025045
HSD16000/16/ST	Tracklink P ₂ P unit, 16 channel digital I/O, Outdoor variant. Does not include cable looms	0062/025046
HSD16000/16/ST/W	Tracklink P ₂ P unit, 16 channel digital I/O, Outdoor variant. Includes 5.0m cable looms for termination.	0062/025047

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Software – NSCD Applications Only

Part No.	Description	Version No
P2P Controller S/W – for NSCDs	Non-interlocked software for Tracklink P2P controller for control of NSCDs	1.0

Assessed Documentation

Reference	Title	Doc. Rev.	Date and Applies to Cert. issue No.	
PA05/06629	Product Acceptance Submission	Rev 0	27/06/2016	T1/1
PA05/06629	A.1 BS EN ISO 9001 Certificate	Rev 0	27/06/2016	T1/1
PA05/06629	A.2 Business Management System Manual	Rev 0	27/06/2016	T1/1
PA05/06629	B.1 HSD15000_010	Rev 0	27/06/2016	T1/1
PA05/06629	B.2 HSD15000_011	Rev 0	27/06/2016	T1/1
PA05/06629	B.3 HSD15000_013	Rev 0	27/06/2016	T1/1
PA05/06629	B.4 HSD15000_014	Rev 0	27/06/2016	T1/1
PA05/06629	C.1 Compliance Matrix	Issue 2	27/06/2016	T1/1
PA05/06629	Hima-Sella TrackLink Pt-Pt	Rev 0	27/06/2016	T1/1
PA05/06629	Hima-Sella TrackLink Pt-Pt 2	Rev 0	27/06/2016	T1/1
PA05/06629	06629 (Hima-Sella Ltd.) Tracklink Pt-Pt Product Acceptance Submission – EMC Test Summary.msg	-	19/09/2016	T1/1
PA05/06629	Risk Review – Hima-Sella Pt to Pt System.docx	-	26/10/2016	T1/1
PA05/06629	Hima-Sella Product Trial of the Pt to Pt system.msg	-	26/10/2016	T1/1
PA05/06629	RE Hima-Sella Point to Point Product Acceptance – outstanding items	-	26/10/2016	T1/1
PA05/06629	HSD15000-PAR Tracklink P2P Product Acceptance Report	Issue 0	12/05/2017	1
PA05/06629	C14321R Chatham P2P FAT - HSD15000 Tracklink P2P Test Schedule	-	25/05/2017	1
PA05/06629	C14321R Strood P2P FAT - HSD15000 Tracklink P2P Test Schedule	-	25/05/2017	1
PA05/06629	C14321R -SAT-CTM-1.0 (HSL Signed) – Chatham Substation Site Acceptance Test Procedures	Iss 1	30/01/2017	1
PA05/06629	C14321R -SATSOO-1.0 (HSL Signed) – Strood Substation Site Acceptance Test Procedures	Iss 1	30/01/2017	1
PA05/06629	HSD15000_001	-	25/05/2017	1
PA05/06629	HSD15000_002	-	25/05/2017	1
PA05/06629	HSD15000_016	-	25/05/2017	1
Email from Roger Watson at Sella Controls, 05/04/2018	Sella Controls P2P unit - Confirmation of Approach	-	05/04/2018	4
PA05/06629	Product Acceptance Review Guidance Document	-	05/04/2018	4
HSD15000-PAR	Tracklink P2P Product Acceptance Report AC Trial Installation	Iss 2	01/10/2019	6

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Manuals and Training Materials

Reference	Title	Doc. Rev.	Date and Applies to Cert. issue No.	
PA05/06629	Risk Review – Hima Sella Pt to Pt System.docx	-	26/10/2016	T1/1
PA05/06629	Tracklink P2P Operation and Maintenance Manual	Iss 1	09/05/2017	1

Certificate History

Issue	Date	Issue History
1T	28/10/2016	First trial issue – acceptance for trial use to validate full acceptance criteria
2T	03/03/2017	Second trial issue – four Crossrail sites added to the certificate to allow controllable devices and sub-systems to communicate with the Cromos86 SCADA system at Romford ECR using the point-to-point system.
1	14/06/2017	First full acceptance for DC electrified railways using any SCADA system, with trial element status for AC railways within Anglia route with the Cromos86 SCADA system at Romford.
2	18/12/2017	Updated to allow reinstatement of AC trial at Wickford TSC. This shall be done once the problems which arose at the start of the initial trial in June 2017 are established and resolved, which is likely to be in January 2018.
3	07/03/2018	Catalogue numbers added as fully accepted for DC electrified systems.
4	04/04/2018	Updated to allow a trial of a version of the device with modified software to enable control of NSCDs from a control panel located lineside.
5	22/01/2019	Trial location for AC electrified railways changed from Wickford TSC to Northumberland Park FS due to long-standing issues with the mechanical switch at Wickford TSC impeding the progress of the trial. Successful conclusion of the trial of the modified version of the TRACKLINK® P2P software to enable control of NSCDs.
6	05/11/2019	Full certificate for network-wide use for control of remotely located lineside switchgear.

Contact Details

Manufacturer

SELLA Controls
Chris Elliot
celliott@sellacontrols.com

Applicant

Adam Clark
Network Rail
Adam.Clark@networkrail.co.uk

Lead Reviewing Engineer

Edward Dzivenu
Network Rail
edward.dzivenu@networkrail.co.uk

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General Terms & Conditions

1) General

- 1) This certificate can only be amended by Network Rail Technology Introduction Group. Any alterations made by a different person 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) Upon the review date this certificate and the product it relates to is invalid and not accepted for use. Manufacturers are to make an application for a review prior to the review date.

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 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.

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 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.

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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 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.

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.

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.