

Manufacturer:
iLecsys Ltd

Issue : 7
Valid From : 12/07/2019

GRP Enclosure for signalling & E&P equipment

Product Description

GRP enclosure for use with Signalling EP and Telecoms equipment. The enclosure comes in a range of sizes as detailed on the certificate.

Mounting equipment supplied by iLecsys is also listed on the certificate.

Product Image

Signalling Enclosure



E & P Enclosure



Scope of Acceptance

Full Acceptance

Accepted for use as Enclosures for Signalling, E & P, and Telecoms Equipment

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.
Authorised by:



Samantha Flint
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) Boxes, part no.s ILS100159/002; ILS 100159/003 & ILS 100159/004 are to be undrilled for E & P use
- 2) Cabinets for Telecoms are to have the insides of back, front, and side panels reinforced with marine-grade plywood.

User

- 1) The GRP enclosure is to be used for Signalling, E & P, and Telecoms equipment only
- 2) When the GRP enclosure is installed normal structure gauge restrictions shall apply. It shall also be located so as not to pose a risk to staff attempting to access the enclosure.
- 3) The GRP enclosure should be mounted with suitable brackets using the fixings that are part of the moulded enclosure
- 4) For Telecoms applications the inside shall be reinforced with marine-grade plywood to prevent unauthorised access by cutting through the cabinets' outer walls.
- 5) GRP enclosures listed under Signalling may be used for E&P equipment where required. They must be undrilled and stated for E&P use when ordered.

Product Configuration

GRP Enclosures-Signalling

Part No.	Description	Catalogue No.
GRP302516H	GRP signalling equipment enclosure (308x255x160)	086/010802
GRP403020H	GRP signalling equipment enclosure (430x330x200)	086/010800
GRP504020H	GRP signalling equipment enclosure (530x430x200)	086/010801
GRP604023H	GRP signalling equipment enclosure (647x436x250)	086/010791
GRP705030H	GRP signalling equipment enclosure (747x536x300)	086/010803
GRP806030H	GRP signalling equipment enclosure (847x636x300)	086/010792
GRP108035H	GRP signalling equipment enclosure (1056x852x350)	086/009902

GRP Signalling Enclosures with WAGO terminals (and mounting bracket where stated)

Part No.	Description	Catalogue No.
ILS 100142	308x255x160mm GRP signalling enclosure with 20 way WAGO terminals, two cable entries and mounting bracket.	086/010790
ILE-Bristol-P	GRP signalling equipment enclosure (430 x 330 x 200) (086/010800) with single column of 14 WAGO disconnection terminals (086/042131) mounted in two sections of 10 and 4 terminals	086/010796
ILE-Bristol-SA	GRP signalling equipment enclosure (430 x 330 x 200) (086/010800) with single column of 10 WAGO disconnection terminals (086/042131)	086/010797

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Part No.	Description	Catalogue No.
ILE-Bristol-SB	GRP signalling equipment enclosure (747 x 536 x 300) (086/010803) with single column of 20 WAGO disconnection terminals (086/042131)	086/010798
ILE-Bristol-SC	GRP signalling equipment enclosure (747 x 536 x 300) (086/010803) with single column of 40 WAGO disconnection terminals (086/042131)	086/010799

GRP Enclosures E & P

Part No.	Description	Catalogue No.
ILS100159/001	GRP 8 way trackside connection box IP66 for E & P equipment (undrilled)	086/010787
ILS100159/002	GRP 16 Way trackside connection Box IP66 for E & P equipment (undrilled)	086/010786
ILS100159/003	GRP 2 way Hot or Cold Probe trackside connection box IP66 for E & P equipment (undrilled)	086/010788
ILS 100159/004	GRP Hot and Cold Probe trackside connection box IP66 (undrilled)	086/010789
ILS100159/005	GRP 2 way Clamplock Heater trackside connection box IP66 (undrilled)	086/010815

GRP Enclosures Telecoms

Part No.	Description	Catalogue No.
ILS10037-010L	Complete assembly with pedestal, left hand door, with marine-grade plywood reinforcement to meet NR/L2/TEL/30107.	086/010768
ILS10037-011R	Complete assembly with pedestal, right hand door, with marine-grade plywood reinforcement to meet NR/L2/TEL/30107.	086/010768

Associated Equipment

Part No.	Description	Catalogue No.
MM108	Plain Chassis (Mounting Plate) Plate	086/009903
ENN21454	Padlock Handle	086/009904
ILE-PLAT-2	Interface plate for full loc base 1000x420x12	086/010793
ILE-PLAT-1	Interface plate for half loc base 570x420x12	086/010794
ILE-PED-1	Interface pedestal for half loc base	086/010795

Assessed Documentation

Copy information from the previous certificate and manufacturer name issue

Reference	Title	Doc. Rev.	Date and Applies to Cert. issue No.	
Various	Email correspondence between D Dykstra, C Singh and P Dickson.	-	November 2009	1
Stage gate 3 response (v0.1)	PA05/04377 GRP Enclosures Acceptance Requirements Report (Includes additional information pages)	-	23/11/2009	1
Polymel 3/38	Product Family Data Sheets	-	23/11/2009	1
Sarel Technical Manual	Stability of polyester when exposed outdoors	-	21/10/1997	1

Certificate of Acceptance

PA05/04377

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Issue : 7
Valid From : 12/07/2019

Reference	Title	Doc. Rev.	Date and Applies to Cert. issue No.	
Unipart/PLM54/PLM57, 8 way dis-box	General Layout Drawings	-	Feb 09 to Apr 09	1
ILS100018	Drawing: RSAR Axle Counter Disconnection Box	B	04/04/2012	2
01-26-084	Drawing: GRP enclosures and mounting equipment	B	26/03/2013	2
-	Email: PADS numbers	-	27/03/2013	2
-	Email: Recommendation from Portsmouth Re-Signalling construction manager	-	25/03/2013	2
-	Letter: to Richard Bonella with regard to change of name form MGB Electrical to iLecsys	-	04/07/2012	2
-	iLecsys certificate of company name change	-	01/04/2012	2
-	Email: Sarel transfer of PADS numbers to MGB Electrical	-	-	2
01-26-004 (0050/558018)	Drawing TRACK SIDE CONNECTION BOX HOT OR COLD PROBE/SENSOR BOX C/W 2.5MM TERMINALS		18/07/2012	
01-08-131 (ILS100159/001)	Drawing Disconnection Box PLM3025 (ROTATED) MACHINED WITH 2x M32 & 8x M20 ENTRIES BOTTOM FACE 16 x 4MM TERMINALS LINKED IN PAIRS AND FITTED WITH KEYLOCKS			
01-08-131 (ILS100159/002)	Drawing 16W DISCONNECTION BOX IP66 GRP		20/07/2012	
01-26-003 (ILS100159/003)	Drawing TRACK SIDE CONNECTION BOX HOT OR COLD PROBE/SENSOR BOX C/W 2.5MM TERMINALS		16/07/2012	
ILS100137/AD/200814	Fire performance report to satisfy NR/L2/TEL/30107 section 21.7	1	20/08/2014	
Excel s/s (no reference)	iLecsys compliance matrix against NR/L2/TEL/30107	2	18/07/2014	
Witness of live testing	Testing to meet LPS 1175 iss 6.	-	09/07/2014	

Certificate History

Issue	Date	Issue History
1	09/12/2009	First accepted for use
2	28/03/2013	This issue includes: <ul style="list-style-type: none"> The addition of extra sizes of the GRP enclosures and mounting equipment. Equipment previously included on PA05/01682 has been transferred to this certificate. The manufacturer has been changed from Sarel to iLecsys due to a name change.
3	02/10/2013	Include a 20 way disconnection box for signalling equipment

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Issue : 7
Valid From : 12/07/2019

4	30/10/2013	Connection boxes for E & P equipment added
5	09/11/2013	Certificate amended to capture already approved signalling items and one new E&P item - ILS100159/005
6	01/11/2014	Addition of suite of cabinets with marine plywood reinforced panels to comply with NR/L2/TEL/30107 for Telecoms applications.
7	12/07/2019	User Condition 5 added for E&P use of Signalling Enclosures

Key Contacts

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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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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