

Certificate of Acceptance

PA05/00472

Manufacturer:
Henry Williams Ltd

Issue : 3
Valid From : 02/05/2023

POINT HEATING CONTROL AND SUPPLY CUBICLES

Product Description

Points Heating Control Cubicles manufactured in accordance with NR/L2/ELP/40045 Iss. 7

Product Image



Scope of Acceptance

Full Acceptance

Points Heating Control Cubicles manufactured in accordance with NR/L2/ELP/40045 Iss. 7

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:

Steve Rennolds
Product Acceptance Specialist

Felix Langley
Network Technical 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) All units shall be tested in accordance with the functional test and inspection schedule supplied.

User

- 1) To be used and installed as per manufacturer's instructions only.
- 2) For housing point heating equipment only.
- 3) Not to be installed in subsurface environments in accordance with section 12 stations and locations.
- 4) All installations shall comply with NR/L2/ELP/40045.
- 5) All installations shall comply with BS 7671.

Product Configuration

System or Complete Assembly

Part No.	Drawing References	Supply	Outgoing Ways	Catalogue No.
304 Stainless Steel PHCC – 3 Phase c/w up to 12	D2022-003-304PHCC-3 PHASE_M001	3 Phase	12	0055/163496
	D2022-003-304PHCC-3 PHASE_M002			
	D2022-003-304PHCC-3 PHASE_M003			
	D2022-003-304PHCC-3 PHASE_E001			
	D2022-003-304PHCC-3 PHASE_E002			

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<p>outgoing ways</p>	<p>304 Stainless Steel PHCC – 3 Phase c/w up to 12 outgoing ways Incorporating the following equipment:</p> <ul style="list-style-type: none"> • 200A incoming isolator • 100A 3 pole contactor • Point heating controller Findlay Irvine 407M • Hot & cold probes (5m long) • Manual/Auto override switch • Points heating distribution board • Single pole MCB protection per outgoing way for points • Current transformer for each points heating MCB, providing 4-20mA output • Remote Monitoring Equipment Data Logger DCU390PH. • Self-regulating anti condensation heater • Internal case light • Phase Healthy indication • Multifunction meter • Earthing system • Outgoing termination chambers • Heaters on indication • Removable gland plates to allow easy external cable installation • Viewing windows for Point Heating Controller & Data Logging units • Adequate space is provided below gland points to accommodate minimum bending radii of incoming cables • The main incoming isolator can accept up to 185mm² conductors with sufficient space to bend into their final position 			
<p>304 Stainless Steel PHCC – 1 Phase c/w up to 4</p>	<p>D2022-003-304PHCC-1 PHASE_M001 D2022-003-304PHCC-1 PHASE_M002 D2022-003-304PHCC-1 PHASE_M003 D2022-003-304PHCC-1 PHASE_E001 D2022-003-304PHCC-1 PHASE_E002</p>	<p>1 Phase</p>	<p>4</p>	<p>0055/163497</p>

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<p>outgoing ways</p>	<p>304 Stainless Steel PHCC – 1 Phase c/w up to 4 outgoing ways Incorporating the following equipment:</p> <ul style="list-style-type: none"> • 200A incoming isolator • 100A 3 pole contactor • Point heating controller Findlay Irvine 407M • Hot & cold probes (5m long) • Manual/Auto override switch • Points heating distribution board • Single pole MCB protection per outgoing way for points • Current transformer for each points heating MCB, providing 4-20mA output • Remote Monitoring Equipment Data Logger DCU390PH. • Self-regulating anti condensation heater • Internal case light • Phase Healthy indication • Multifunction meter • Earthing system • Outgoing termination chambers • Heaters on indication • Removable gland plates to allow easy external cable installation • Viewing windows for Point Heating Controller & Data Logging units • Adequate space is provided below gland points to accommodate minimum bending radii of incoming cables • The main incoming isolator can accept up to 185mm² conductors with sufficient space to bend into their final position 			
<p>316 Stainless Steel PHCC – 3 Phase c/w up to 12</p>	<p>D2022-003-316PHCC-3 PHASE_M001 D2022-003-316PHCC-3 PHASE_M002 D2022-003-316PHCC-3 PHASE_M003 D2022-003-316PHCC-3 PHASE_E001 D2022-003-316PHCC-3 PHASE_E002</p>	<p>3 Phase</p>	<p>12</p>	<p>0055/163498</p>

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<p>outgoing ways</p>	<p>316 Stainless Steel PHCC – 3 Phase c/w up to 12 outgoing ways Incorporating the following equipment:</p> <ul style="list-style-type: none"> • 200A incoming isolator • 100A 3 pole contactor • Point heating controller Findlay Irvine 407M • Hot & cold probes (5m long) • Manual/Auto override switch • Points heating distribution board • Single pole MCB protection per outgoing way for points • Current transformer for each points heating MCB, providing 4-20mA output • Remote Monitoring Equipment Data Logger DCU390PH. • Self-regulating anti condensation heater • Internal case light • Phase Healthy indication • Multifunction meter • Earthing system • Outgoing termination chambers • Heaters on indication • Removable gland plates to allow easy external cable installation • Viewing windows for Point Heating Controller & Data Logging units • Adequate space is provided below gland points to accommodate minimum bending radii of incoming cables • The main incoming isolator can accept up to 185mm² conductors with sufficient space to bend into their final position 			
<p>316 Stainless Steel PHCC – 1 Phase c/w up to 12</p>	<p>D2022-003-316PHCC-1 PHASE_M001 D2022-003-316PHCC-1 PHASE_M002 D2022-003-316PHCC-1 PHASE_M003 D2022-003-316PHCC-1 PHASE_E001 D2022-003-316PHCC-1 PHASE_E002</p>	<p>1 Phase</p>	<p>4</p>	<p>0055/163499</p>

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<p>outgoing ways</p>	<p>316 Stainless Steel PHCC – 1 Phase c/w up to 4 outgoing ways Incorporating the following equipment:</p> <ul style="list-style-type: none"> • 200A incoming isolator • 100A 3 pole contactor • Point heating controller Findlay Irvine 407M • Hot & cold probes (5m long) • Manual/Auto override switch • Points heating distribution board • Single pole MCB protection per outgoing way for points • Current transformer for each points heating MCB, providing 4-20mA output • Remote Monitoring Equipment Data Logger DCU390PH. • Self-regulating anti condensation heater • Internal case light • Phase Healthy indication • Multifunction meter • Earthing system • Outgoing termination chambers • Heaters on indication • Removable gland plates to allow easy external cable installation • Viewing windows for Point Heating Controller & Data Logging units • Adequate space is provided below gland points to accommodate minimum bending radii of incoming cables • The main incoming isolator can accept up to 185mm² conductors with sufficient space to bend into their final position 			
<p>304 Stainless Steel PHCC (A Case) – 3</p>	<p>D2022-003-304PHCC(A)-3 PHASE_M001 D2022-003-304PHCC(A)-3 PHASE_M002 D2022-003-304PHCC(A)-3 PHASE_E001 D2022-003-304PHCC(A)-3 PHASE_E002</p>	<p>3 Phase</p>	<p>12</p>	<p>0055/163500</p>

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<p>Phase c/w up to 12 outgoing ways</p>	<p>304 Stainless Steel PHCC – 3 Phase c/w up to 12 outgoing ways Incorporating the following equipment:</p> <ul style="list-style-type: none"> • 200A incoming isolator • 100A 3 pole contactor • Point heating controller Findlay Irvine 407M • Hot & cold probes (5m long) • Manual/Auto override switch • Points heating distribution board • Single pole MCB protection per outgoing way for points • Current transformer for each points heating MCB, providing 4-20mA output • Remote Monitoring Equipment Data Logger DCU390PH. • Self-regulating anti condensation heater • Internal case light • Phase Healthy indication • Multifunction meter • Earthing system • Outgoing termination chambers • Heaters on indication • Removable gland plates to allow easy external cable installation • Viewing windows for Point Heating Controller & Data Logging units • Adequate space is provided below gland points to accommodate minimum bending radii of incoming cables • The main incoming isolator can accept up to 185mm² conductors with sufficient space to bend into their final position 			
<p>304 Stainless Steel PHCC (A Case) – 1</p>	<p>D2022-003-304PHCC(A)-3 PHASE_M001 D2022-003-304PHCC(A)-3 PHASE_M002 D2022-003-304PHCC(A)-3 PHASE_E001 D2022-003-304PHCC(A)-3 PHASE_E002</p>	<p>1 Phase</p>	<p>4</p>	<p>0055/163501</p>

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<p>Phase c/w up to 4 outgoing ways</p>	<p>304 Stainless Steel PHCC (A Case) – 1 Phase c/w up to 4 outgoing ways Incorporating the following equipment:</p> <ul style="list-style-type: none"> • 200A incoming isolator • 100A 3 pole contactor • Point heating controller Findlay Irvine 407M • Hot & cold probes (5m long) • Manual/Auto override switch • Points heating distribution board • Single pole MCB protection per outgoing way for points • Current transformer for each points heating MCB, providing 4-20mA output • Remote Monitoring Equipment Data Logger DCU390PH. • Self-regulating anti condensation heater • Internal case light • Phase Healthy indication • Multifunction meter • Earthing system • Outgoing termination chambers • Heaters on indication • Removable gland plates to allow easy external cable installation • Viewing windows for Point Heating Controller & Data Logging units • Adequate space is provided below gland points to accommodate minimum bending radii of incoming cables • The main incoming isolator can accept up to 185mm² conductors with sufficient space to bend into their final position 			
<p>316 Stainless Steel PHCC (A Case) – 3</p>	<p>D2022-003-316PHCC(A)-3 PHASE_M001 D2022-003-316PHCC(A)-3 PHASE_M002 D2022-003-316PHCC(A)-3 PHASE_E001 D2022-003-316PHCC(A)-3 PHASE_E002</p>	<p>3 Phase</p>	<p>12</p>	<p>0055/163502</p>

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<p>Phase c/w up to 12 outgoing ways</p>	<p>316 Stainless Steel PHCC – 3 Phase c/w up to 12 outgoing ways Incorporating the following equipment:</p> <ul style="list-style-type: none"> • 200A incoming isolator • 100A 3 pole contactor • Point heating controller Findlay Irvine 407M • Hot & cold probes (5m long) • Manual/Auto override switch • Points heating distribution board • Single pole MCB protection per outgoing way for points • Current transformer for each points heating MCB, providing 4-20mA output • Remote Monitoring Equipment Data Logger DCU390PH. • Self-regulating anti condensation heater • Internal case light • Phase Healthy indication • Multifunction meter • Earthing system • Outgoing termination chambers • Heaters on indication • Removable gland plates to allow easy external cable installation • Viewing windows for Point Heating Controller & Data Logging units • Adequate space is provided below gland points to accommodate minimum bending radii of incoming cables • The main incoming isolator can accept up to 185mm² conductors with sufficient space to bend into their final position 			
<p>316 Stainless Steel PHCC (A Case) – 1</p>	<p>D2022-003-316PHCC(A)-3 PHASE_M001 D2022-003-316PHCC(A)-3 PHASE_M002 D2022-003-316PHCC(A)-3 PHASE_E001 D2022-003-316PHCC(A)-3 PHASE_E002</p>	<p>1 Phase</p>	<p>4</p>	<p>0055/163503</p>

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<p>Phase c/w up to 4 outgoing ways</p>	<p>316 Stainless Steel PHCC (A Case) – 1 Phase c/w up to 4 outgoing ways Incorporating the following equipment:</p> <ul style="list-style-type: none"> • 200A incoming isolator • 100A 3 pole contactor • Point heating controller Findlay Irvine 407M • Hot & cold probes (5m long) • Manual/Auto override switch • Points heating distribution board • Single pole MCB protection per outgoing way for points • Current transformer for each points heating MCB, providing 4-20mA output • Remote Monitoring Equipment Data Logger DCU390PH. • Self-regulating anti condensation heater • Internal case light • Phase Healthy indication • Multifunction meter • Earthing system • Outgoing termination chambers • Heaters on indication • Removable gland plates to allow easy external cable installation • Viewing windows for Point Heating Controller & Data Logging units • Adequate space is provided below gland points to accommodate minimum bending radii of incoming cables • The main incoming isolator can accept up to 185mm² conductors with sufficient space to bend into their final position 			
<p>GRP PHCC – 3 Phase c/w up to 12 outgoing ways</p>	<p>D2022-003-GRPPHCC-3 PHASE_M001 D2022-003-GRPPHCC-3 PHASE_M002 D2022-003-GRPPHCC-3 PHASE_M003 D2022-003-GRPPHCC-3 PHASE_E001 D2022-003-GRPPHCC-3 PHASE_E002</p>	<p>3 Phase</p>	<p>12</p>	<p>0055/163504</p>

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	<p>GRP PHCC – 3 Phase c/w up to 12 outgoing ways Incorporating the following equipment:</p> <ul style="list-style-type: none"> • 200A incoming isolator • 100A 3 pole contactor • Point heating controller Findlay Irvine 407M • Hot & cold probes (5m long) • Manual/Auto override switch • Points heating distribution board • Single pole MCB protection per outgoing way for points • Current transformer for each points heating MCB, providing 4-20mA output • Remote Monitoring Equipment Data Logger DCU390PH. • Self-regulating anti condensation heater • Internal case light • Phase Healthy indication • Multifunction meter • Earthing system • Outgoing termination chambers • Heaters on indication • Removable gland plates to allow easy external cable installation • Viewing windows for Point Heating Controller & Data Logging units • Adequate space is provided below gland points to accommodate minimum bending radii of incoming cables • The main incoming isolator can accept up to 185mm² conductors with sufficient space to bend into their final position 			
<p>GRP PHCC – 1 Phase c/w up to 4 outgoing ways</p>	<p>D2022-003-GRPPHCC-1 PHASE_M001 D2022-003-GRPPHCC-1 PHASE_M002 D2022-003-GRPPHCC-1 PHASE_M003 D2022-003-GRPPHCC-1 PHASE_E001 D2022-003-GRPPHCC-1 PHASE_E002</p>	<p>1 Phase</p>	<p>4</p>	<p>0055/163505</p>

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<p>GRP PHCC – 1 Phase c/w up to 4 outgoing ways Incorporating the following equipment:</p> <ul style="list-style-type: none"> • 200A incoming isolator • 100A 3 pole contactor • Point heating controller Findlay Irvine 407M • Hot & cold probes (5m long) • Manual/Auto override switch • Points heating distribution board • Single pole MCB protection per outgoing way for points • Current transformer for each points heating MCB, providing 4-20mA output • Remote Monitoring Equipment Data Logger DCU390PH. • Self-regulating anti condensation heater • Internal case light • Phase Healthy indication • Multifunction meter • Earthing system • Outgoing termination chambers • Heaters on indication • Removable gland plates to allow easy external cable installation • Viewing windows for Point Heating Controller & Data Logging units • Adequate space is provided below gland points to accommodate minimum bending radii of incoming cables • The main incoming isolator can accept up to 185mm² conductors with sufficient space to bend into their final position 	
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Obsolete Units

Part No.	Description	Catalogue No.
--	Control Cubicle	055/009181
--	Supply Cubicle	055/009182

Assessed Documentation

Reference	Title	Doc. Rev.	Date and Applies to Cert. issue No.	
PA05/00472	Proposal for product acceptance		11/05/1999	1
5939/1	Certificate of Compliance for a control cubicle		25/09/1998	1
Cjf/AWDP/14040/S30	Statement of Compliance with RT/E/S/40045 – Electric Point Heating, Issue 3, Oct 2001		06/02/2002	1
491-E001	Point heater cubicles		--	1
491-M001	Point heater cubicles		--	1
-	E-mail from Henry Williams Ltd confirming compliance to latest issue of Network Rail specification		29/01/2007	2
	Folder '00472 – Henry Williams Points Heating Cubicles – Issue 3		April 2023	3

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Manuals and Training Materials

Reference	Title	Doc. Rev.	Date and Applies to Cert. issue No.	
HWPHCC	Points Heating Control Cubicle [PHCC] Operation & Maintenance Manual	5	14/03/2023	3

Certificate History

Issue	Date	Issue History
1	08/05/2002	First accepted for use.
2	09/02/2007	Re-issued to confirm continued acceptance to latest Network Rail specification.
3	02/05/2023	Re-issued to confirm continued acceptance to latest Network Rail specification and addition of 10 new cat. no,s for the acceptance items and 2 items that are now obsolete.

Contact Details

Manufacturer

Henry Williams Ltd
CalvinStephenson@hwilliams.co.uk

Applicant

N/A

Lead Reviewing Engineer

Clare Yeowart
clare.yeowart@networkrail.co.uk

General Terms & Conditions

1) General

- 1) This certificate can only be amended by Network Rail Product Acceptance, the Professional 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) 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 Product Acceptance:
 - 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).

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- 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 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 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.