

Foreword



Hodgkinson's are a Derby based firm, who have played an influential role during the last two decades in the local construction Industry. We are a business that pride ourselves on delivering quality packages on various scales to prestigious clientel. We play an active role in the community through schemes such as Derby Housing and BBC's D.I.Y. SOS.

Here on Lathkill Drive, we have utilised our wide range of experienced contacts to produce high quality and affordable housing, in partnership with Chevin Homes.

Your home has been built to meet all building regulations and provides a safe, comfortable and energy efficient building for you to live in. It is built to last and is proudly stamped with the Premier Guarantee's New Homes warranty, lasting 10 years.

We at Hodgkinson's hope that your house provides you with the many happy memories that come with any home and we can only wish you all the best settling in here in Derbyshire.

This guide is here to offer you information on both the area you have moved into, as well as to getting the most out of your brand new home. In this concise handbook, all the basics are included to safe operation of your energy, water, gas supplies and fittings; as well as all warranty and contact information.

Should this handbook not offer you enough guidance please don't hesitate to contact us at Hodgkinson's head office.

Tel [01332 228944](tel:01332228944)

Email aleisha@hodgkinson.uk.com
jilly

A handwritten signature in black ink, appearing to read "R. Hodgkinson".

Ian Hodgkinson
Managing Director

What this guide contains

SETTLING INTO YOUR HOME

- WHAT TO EXPECT

USING YOUR HOME - SERVICES

- ELECTRICITY SUPPLY
- PLUMBING AND GAS SUPPLY
- WATER SUPPLY
- WHO TO CALL
- WASTE AND RECYCLING

CARE AND MAINTENANCE OF YOUR HOME

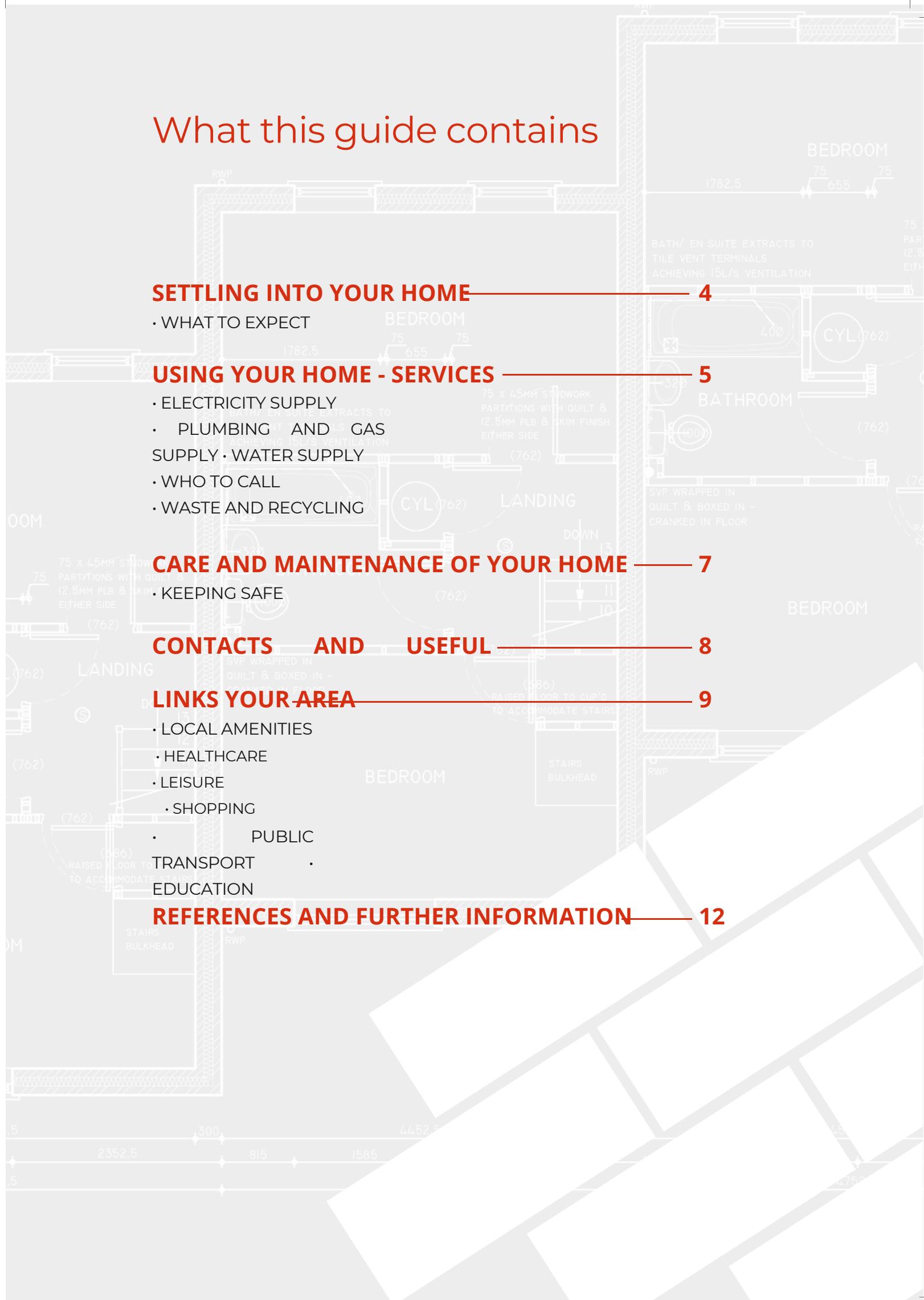
- KEEPING SAFE

CONTACTS AND USEFUL

LINKS YOUR AREA

- LOCAL AMENITIES
- HEALTHCARE
- LEISURE
- SHOPPING
- TRANSPORT
- EDUCATION

REFERENCES AND FURTHER INFORMATION



Settling into your home

Welcoming you to ~~Lathkill Drive~~ Bath Street.

Now you have moved in; we want you to make your brand new house into a home. This concise guide aims to provide all the basics to your home, ~~Ashbourne~~ and its surrounding areas.

Ilkeston

Use this booklet for useful contacts, websites and information for aspects of living here.

What to expect

Whilst you're still settling into your home, so is the building itself. With all new buildings it takes a period of a few months for them to fully dry out; during this period you may find small cracks appear in your walls or around the edges of some of your windows and doors. You may find some of your skirting boards may also shrink slightly. This is a very normal process, and can be assisted with keeping your home well ventilated and reducing condensation during this period.



Using your home - services

Make sure you know what is involved in keeping your home running, who provides you with your services and how to monitor/control them.

Ilkeston Erewash Borough

As ~~Cheshire~~ ~~is run by Derbyshire Dales District Council~~, who offer many services and are responsible for most of the key amenities in your area.

Their website is very helpful for council information and contacts. The website covers everything from waste collection to environmental issues, roads and schooling.

www.derbyshiredales.gov.uk
www.erewash.gov.uk

BUILDMARK GUARANTEE

Your home is stamped with the Premier Guarantee New Homes warranty. This is in place from the moment both contracts are signed.

Your home's warranty is covered by us, Hodgkinson's for the first two years of your home's life. During this time we will endeavour to assist you in any way relating to the quality and standards of your home covered under your agreement.

Premier Guarantee will also be able to offer you any advice or guidance during this time.

After the initial warranty is complete, your home will continue to be protected by insurance cover provided by Premier Guarantee until 10 years after completion.

This means that they will pay the cost or carry out remedial works for issues covered by the policy if the cost exceeds the minimum claim value.

Premier Guarantee New Homes
2 Shore Lines Building, Shore Road, Birkenhead, Wirral CH41 1AU
0800 107 8446
www.premierguarantee.com

ELECTRICITY SUPPLY

From the electricity meter, external to your house cables run to your consumer unit/fuse box; located inside under the stairs.

This contains the main on/off switch for your internal electricity supply alongside some miniature circuit breakers, protected individual circuits. These breakers automatically disconnect the supply of electricity if one of the circuits is overloaded or there is a fault. These can be easily reset by switching it to the 'on' position.

Additional protection in the form of a RCD will be found on your switchboard, if this is tripped it can also be reset by flicking back to the 'on' position.

Regularly test your RCD using the 'test' button. This is good practise as the RCD provides vital protection from potential damage/danger of electrical faults.

If a circuit breaker or RCD trips regularly there could be a fault with one of your appliances/ electric installation. Contact an electrician for help.

pLUMBING AND GAS SUPPLY

Your Combi Boiler is a **Vaillant Ecotec Sustain**. Vaillant are known to be one of the market leaders in efficient and reliable boiler systems.

Your programmable thermostat is a fantastic way of efficiently heating your home whilst both saving energy and money. If your instruction book isn't enough, there are clear videos online.

Radiators can get air bubbles inside them, in turn they become less efficient, and your home will take longer to heat.

By bleeding your radiators, and releasing the trapped air bubbles this can be easily rectified.

WATER SUPPLY

Water meters are found on the footpath adjacent to the properties.

In case of emergency or internal water works, your water stop tap is situated beneath the kitchen sink.

If you want to cover your home from further boiler, leakage and electrical emergencies further, homeserve are a brilliant company who cover this amongst other services at competitive rates.

www.homeserve.com

WHO TO CALL

Service providers

Western power (Electricity)

General: 0800 0963 080
Emergencies: 0800 6783 105

British Gas (Gas)

General: 0800 072 7511
Emergencies: 0800 111 999

BT (Telecoms)

General: 0207 356 5000
Emergencies: 0800 023 2023

Severn Trent (Water & Sewers)

General: 02477 715 000
Emergencies: 0800 783 4444

The Gas Safe Register

Is the official list of gas engineers who are registered to work safely and legally on gas appliances in the UK.

0800 408 5500

www.gassaferegister.co.uk

WASTE AND RECYCLING

Erewash Borough Council

Derbyshire Dales District Council

Ilkeston Town Hall, Ilkeston,

DE75 5RF

Town Hall, Bank Road, Matlock DE4 3NN

Phone: ~~01629 761122~~ [01159072244](tel:01159072244)

Email: waste@derbyshiredales.gov.uk

www.map.erewash.gov.uk/isharelive.web/myerewash.aspx

[www.derbyshiredales.gov.uk/environment-](http://www.derbyshiredales.gov.uk/environment-and-waste/bins-recycling/when-is-my-collection)

[and-waste/bins-recycling/when-is-my-collection](http://www.derbyshiredales.gov.uk/environment-and-waste/bins-recycling/when-is-my-collection)

Wednesday

Collections are made on Thursdays on a fortnightly basis for waste and recycling.

Peak Waste

~~Wood Lane, Knaveton, Ashbourne DE6~~

~~13F Phone: 01335 342 276~~

~~Email: info@peakwaste.com~~

www.peakwaste.co.uk

Care and maintenance of your home

KEEPING SAFE

THEFT pREVENTION

What's in place to help you avoid and prevent theft:

Your home has been fitted with five point locking systems on all window and door fittings, this insures no easy access from outside. Shared access for bins, is gated and locked.

On top of this there are front and rear motion sensored lights as well as an anti-theft alarm installed in your property.

To further secure and protect your home, easy to monitor home CCTV kits are easy to acquire.

FIRE AND GAS RISK pREVENTION

Your fire alarm system, and keeping your home safe from risks:

Your fire alarm/smoke detection system:

The house is fitted with both a heat and smoke alarm, both supplied by AICO.

Your carbon monoxide gas detection system:

Your carbon monoxide detector/alarm is an [AICO Ei164](#). The alarm is mains powered, with lithium battery backup that lasts the lifetime of the alarm.

The alarm also is compatible with AICO's own mobile app, which offers reports on Carbon Monoxide levels in your home as well as alarm history etc.

Test all of your alarms Weekly



Contacts and useful links

Ilkeston Police Station Heanor Road, Town Centre, Ilkeston, DE7 8DY 03451233333

~~Derbyshire police~~ Park Road, Ashbourne DE6 1FN ~~01773 730215~~

~~Erewash Borough Concil, Ilkeston Town Hall, Ilkeston, DE7 5RP~~ 01159072244

~~Ashbourne Town Council~~ 22 Market Place, Ashbourne DE6 1HQ ~~01335 342291~~

Severn Trent (Water & Sewers) Foul sewer problems or water supply problems

~~0800 783 0244~~ 715 000 Emergencies:

~~0800 711 999~~ Call if you are in danger on or near overhead electricity lines:

Flooding 0800 807 060

British Gas (Gas) 0800 072 7511 0800 111 999

Western Power (Electricity) 0800 0963 0800 800 6783 105

BT (Telecoms) 0207 356 5000 0800 023 2023

~~Derbyshire Dales District Council~~ 01629 761100

Future Housing Group 0300 4562 531k Ripley DE5 3SW

Hodgson 01332 228904 Derby DE24 8AJ

premier Guarantee 0800 107 8446 Claims & Guidance www.premierguarantee.com

Deeds gov.uk/get-information-about-property-and-land/copies-of-deeds

Your area

LOCAL AMENITIES

Ashbourne Ilkeston has all the amenities you would expect from a small suburban town, with a choice of places to go for most situations.

HEALTHCARE

Nearest Hospital

Ashbourne Ilkeston District Hospital DE6 1DR 0335 230085

The Surgery Clifton Road DE6 1PP Old Station Surgery Hensor Road, Ilkeston DE6 1ON 3D3e5rb 3ys0h0ir5e8, 8DE7 8ES 01159301055

Ashbourne Dental practice Townhead House, 58 The Green Road DE6 1EE Ward & Allison Dental Practice 1 Market Street, Ilkeston, Derbyshire, DE7 5QU 01159324811 01335 345645

White peak Dental practice DE6 1BX 01335 343126

Mantle Dental Practice 39 Asworth Road, Ilkeston, Derbyshire, DE7 8JD 01159325368

Oswald House Dental practice TAE 01335 342509

Community Dental Services CIC Ilkeston Community Hospital Hensor Road, Ilkeston, DE7 8LN 03332079958

PHARMACIES

Pharmacy Ilkeston Ashburne Health Centre, Clifton Road DE6 1DR 01335 343509

Boots Horse & Jockey Yard, 7 Street John St DE6 1BB 01335 342039

Well Ilkeston - South Street 56 South St, Ilkeston, DE7 5QJ 01159325036

Natural Choice Street DE6 1GH 01335 346096

LEISURE

Ashbourne Leisure Centre Cenetrnet rMeaCnnleftros 01335 337122

SHOPPING

Sainsbury's Edward Street, Coopers Mill DE6 1BW

Tesco Extra Rutland St, Ilkeston, DE7 8DG

Morrisons Supermarket 107 Nottingham Road, Ilkeston, DE5 5NN

Hill Top Station Way DE6 1AY, DE7 8EG

Homebase Spire House, Waterside Retail Park, Clifton Road DE6 1DG

BUS SERVICES

Traveline Ilkeston to Belper Flyer

Offer various travel cards for regular service users and students.

www.travelinebarton.co.uk/sseerviiceess//IlkweisfttonFlyer/timetable

Service 113 between Ashbourne and Belper via Hazelwood and Hulland Ward.

www.catchyourbus.co.uk/113/yourbus113.html

Service 114 between Ashbourne and Derby via Hulland Ward and Kedleston.

www.catchyourbus.co.uk/114/yourbus114.html

EDUCATION

Erewash Borough Council

This comprehensive page on [Derbyshire County Council](http://www.ewbc.gov.uk/education) website should cover all the information you require.

www.derbyshire.gov.uk/education

References and further information

Gas Safe Register

CEIC is the UK's leading voluntary regulatory body for the electrical contracting industry. It has been assessing the electrical competence of electricians for over 50 years and currently maintains a roll of over 26,000 registered contractors.

Check the register, find a registered electrician and receive guidance/advice on electrical safety.

01582 531 000

Email: enquiries@niceic.com
www.niceic.com

ECA

Founded in 1901, the ECA is the UK's leading trade association representing the interests of contractors who design, install, inspect, test and maintain electrical and electronic equipment and services.

020 7313 4800

Email: electricalcontractors@eca.co.uk
www.eca.co.uk

Building Regulations, advice and guidance

RIBA (Royal Institute of British Architects)

RIBA champions better buildings, communities and the environment. It provides standards, training, support and recognition for its members. Membership of RIBA is recognised the world over as a symbol of professional excellence among both clients and architects.

020 7580 5533

Email: info@riba.org
www.architecture.com

RICS (Royal Institute of Chartered Surveyors)

RICS is an international professional body with over 100,000 members. It regulates and promotes the profession; maintains the highest educational and professional standards; protects clients and consumers via a strict code of ethics; and provides impartial advice and guidance.

0247 686 8555

Email: contactrics@rics.org
www.rics.org

Government planning portal (England & Wales)

The Planning Portal is the UK Government's comprehensive online planning and Building Regulations resource for England and Wales.

www.planningportal.gov.uk



CERTIFICATE



ELECTRICAL INSTALLATION CERTIFICATE

CERTIFICATE No: EICS-20211123074743

This is to certify that the electrical installation at the following address complies
with the requirements of BS 7671:2018 - as amended

2 Tavern Close (PLOT 1)
Ilkeston
DE7 8LS

The following work was carried out at the address above

New installation covering power and lighting throughout.

This Certificate deems the installation to be in the following condition:

SATISFACTORY

Company issuing this Certificate

James Booth Electrical LTD
Unit 27, Sherwood Network Centre
Sherwood Energy Village
Ollerton
NG22 9FD
0800 6785281
info@jamesboothelectrical.co.uk
CPS Enrolment No: 29092

Issued on

03/11/2021

Inspected by

Conor Evans

A handwritten signature of "Conor Evans" over a solid blue horizontal bar.

Reviewed by

James Booth

A handwritten signature of "James Booth" over a solid blue horizontal bar.

Recommended re-test

**10 years from
date of issue**

Certificate generated by electraform® 2021 | www.electraform.co.uk



CERTIFICATE NO: EICS-20211123074743

ELECTRICAL INSTALLATION CERTIFICATE (SHORT)

Requirements for electrical installations (BS 7671 IET Wiring Regulations)

DETAILS OF THE CLIENT

Hodgkinson Builders Limited
Unit 36, Royal Scot Road, Pride park
Derby
Derbyshire
DE24 8AJ

📞: 01332228944
📠: -
✉️: -
👤: Hodgkinson Builders Limited

DETAILS OF THE INSTALLATION

📞: -
📠: -
✉️: -
👤: -

EXTENT OF INSTALLATION COVERED BY THIS CERTIFICATE

Extent of the electrical installation covered by this certificate - see additional page at the end of this certificate

New installation covering power and lighting throughout.

Description of premises

- Domestic
 Commercial
 Industrial
 Other

Installation is

- New
 An addition
 An alteration

DETAILS OF DEPARTURES AND PERMITTED EXCEPTIONS

Details of departures and permitted exceptions BS 7671 (Regs 120.3, 133.1.3, 133.5, 411.3.3). Risk assessment included.

N/A

FOR DESIGN, CONSTRUCTION AND INSPECTION AND TESTING

James Booth Electrical LTD
Unit 27, Sherwood Network Centre
Sherwood Energy Village
Ollerton
NG22 9FD

📞: 0800 6785281
📠: -
✉️: info@jamesboothelectrical.co.uk
🌐: www.jamesboothelectrical.co.uk
Registration no: 29092



I/We, being the person(s) responsible for the design, construction and inspection and testing of the electrical installation (as indicated by my/our signatures below), particulars of which are described above, having exercised reasonable skill and care when carrying out the design, construction and inspection and testing, hereby CERTIFY that the work for which I have been responsible is to the best of my knowledge and belief in accordance with BS 7671:2018 as amended except for the departures, if any, detailed as follows.

Inspected and tested by

Name

Conor Evans

Signature

Position

Electrician

Date

03/11/2021

Certificate authorised by

Name

James Booth

Signature

Position

Qualified Supervisor

Date

03/11/2021

NEXT INSPECTION

I, recommend that this installation is further inspected and tested in

10 years

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SUPPLY CHARACTERISTICS AND EARTHING ARRANGEMENTS

Earthing arrangements		Number and type of live conductors				Nature of supply parameters				Supply Protective Device	
TN-S	<input type="checkbox"/>	AC	<input type="checkbox"/>	DC	<input type="checkbox"/>	Nominal voltage - U	230 V	Uo	230 V	BS(EN)	1361-II
TN-C-S	<input checked="" type="checkbox"/>	1-phase (2 wire)	<input checked="" type="checkbox"/>	1-phase (3 wire)	<input type="checkbox"/>	2 pole	<input type="checkbox"/>	Nominal frequency - f	50 Hz	No of supplies	1
TN-C	<input type="checkbox"/>	2-phase (3 wire)	<input type="checkbox"/>	3 pole	<input type="checkbox"/>	PFC - Ipf	1.7 kA	Supply polarity confirmed	<input checked="" type="checkbox"/>	Short circuit capacity (kA)	33
TT	<input type="checkbox"/>	3-phase (3 wire)	<input type="checkbox"/>	3-phase (4 wire)	<input type="checkbox"/>	Other	<input type="checkbox"/>	Earth loop impedance - Ze	0.13 Ω	Maximum demand	55 A
IT	<input type="checkbox"/>									Rated current (A)	80

PARTICULARS OF INSTALLATION REFERRED TO IN THIS REPORT

Means of earthing	Details of installation earth electrode (where applicable)		
Distributor's facility	Type: eg rod, tape	N/A	Resistance to earth N/A Ω
Earth electrode	Location	N/A	Method of measurement N/A
Main switch / switch fuse /circuit breaker / RCD	Earthing conductor	Main protective bonding conductors	Bonding of extraneous conductive parts
Type BS(EN) 60947-3	Conductor material Copper	Conductor material Copper	Water -
No of poles 2	Voltage rating 230 V	Conductor csa (mm ²) 16	Gas <input checked="" type="checkbox"/>
Conductor material Copper	Rated current - In 100 A	Conductor csa (mm ²) 10	Structural steel -
Conductor csa (mm ²) 16	Fuse/device rating or setting N/A A	Continuity check <input checked="" type="checkbox"/>	Lightning protection -
	RCD operating current, In N/A mA		Other services -
	RCD operating time at In N/A ms		
		BONDING OUTCOMES	Pass <input checked="" type="checkbox"/>
		Not applicable	N/A
		No access	

Location of main switch

Meter Box

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SCHEDULES OF INSPECTION

OUTCOMES	Acceptable condition	<input checked="" type="checkbox"/>	Not applicable	<input type="checkbox"/>	Limitation	<input type="checkbox"/>	Departure from BS 7671	<input type="checkbox"/>	Note made about installation	<input type="checkbox"/>	NOTE
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Item No	DESCRIPTION	OUTCOME Use codes above
1.0 EXTERNAL CONDITION OF INTAKE EQUIPMENT (VISUAL INSPECTION ONLY)		
1.1	Service cable	<input checked="" type="checkbox"/>
1.2	Service head	<input checked="" type="checkbox"/>
1.3	Earthing arrangement	<input checked="" type="checkbox"/>
1.4	Meter tails	<input checked="" type="checkbox"/>
1.5	Metering equipment	<input checked="" type="checkbox"/>
1.6	Isolator (where present)	<input checked="" type="checkbox"/>
2.0 PARALLEL OR SWITCHED ALTERNATIVE SOURCES OF SUPPLY		
2.1	Adequate arrangements where a generating set operates as a switched alternative to the public supply (551.6)	<input type="checkbox"/> N/A
2.2	Adequate arrangements where a generating set operates in parallel with the public supply (551.7)	<input type="checkbox"/> N/A
3.0 AUTOMATIC DISCONNECTION OF SUPPLY		
3.1	Presence and adequacy of earthing and protective bonding arrangements:	
3.1.1	* Distributor's earthing arrangement (542.1.2.1; 542.1.2.2)	<input checked="" type="checkbox"/>
3.1.2	* Installation earth electrode (where applicable) (542.1.2.3)	<input type="checkbox"/> N/A
3.1.3	* Earthing conductor and connections, including accessibility (542.3; 543.3.2)	<input checked="" type="checkbox"/>
3.1.4	* Main protective bonding conductors and connections, including accessibility (411.3.1.2; 543.3.2; 544.1)	<input checked="" type="checkbox"/>
3.1.5	* Provision of safety electrical earthing/bonding labels at all appropriate locations (514.13)	<input checked="" type="checkbox"/>
3.1.6	* RCD(s) provided for fault protection (411.4.204; 411.5.3)	<input checked="" type="checkbox"/>
4.0 BASIC PROTECTION		
4.1	Presence and adequacy of measures to provide basic protection (prevention of contact with live parts) within the installation:	
4.1.1	* Insulation of live parts e.g. conductors completely covered with durable insulating material (416.1)	<input checked="" type="checkbox"/>
4.1.2	* Barriers or enclosures e.g. correct IP rating (416.2)	<input checked="" type="checkbox"/>
5.0 ADDITIONAL PROTECTION		
5.1	Presence and effectiveness of additional protection methods:	
5.1.1	* RCD(s) not exceeding 30mA operating current (415.1; Part 7), see item 8.14 of this schedule	<input checked="" type="checkbox"/>
5.1.2	* Supplementary bonding (415.2; Part 7)	<input type="checkbox"/> N/A
6.0 OTHER METHODS OF PROTECTION		
6.1	Presence and effectiveness of methods which give both basic and fault protection:	
6.1.1	* SELV system, including the source and associated circuits (Section 414)	<input checked="" type="checkbox"/>
6.1.2	* PELV system, including the source and associated circuits (Section 414)	<input checked="" type="checkbox"/>
6.1.3	* Double or reinforced insulation i.e. Class II or equivalent equipment and associated circuits (Section 412)	<input checked="" type="checkbox"/>
6.1.4	* Electrical separation for one piece of equipment e.g. shaver supply unit (Section 413)	<input checked="" type="checkbox"/>

Item No	DESCRIPTION	OUTCOME See codes above
7.0 CONSUMER UNIT(S) / DISTRIBUTION BOARD(S):		
7.1	Adequacy of access and working space for items of electrical equipment including switchgear (132.12)	✓
7.2	Components are suitable according to assembly manufacturer's instructions or literature (536.4.203)	✓
7.3	Presence of linked main switch(s) (462.1.201)	✓
7.4	Isolators, for every circuit or group of circuits and all items of equipment (462.2)	✓
7.5	Suitability of enclosure(s) for IP and fire ratings (416.2; 421.1.6; 421.1.201; 526.5)	✓
7.6	Protection against mechanical damage where cables enter equipment (522.8.1; 522.8.5; 522.8.11)	✓
7.7	Confirmation that ALL conductor connections are correctly located in terminals and are tight and secure (526.1)	✓
7.8	Avoidance of heating effects where cables enter ferromagnetic enclosures e.g. steel (521.5)	✓
7.9	Selection of correct type and ratings of circuit protective devices for overcurrent and fault protection (411.3.2; 411.4; 411.5; 411.6; Sections 432, 433, 537.3.1.1)	✓
7.10 Presence of appropriate circuit charts, warning and other notices:		
7.10.1	* Provision of circuit charts/schedules or equivalent forms of information (514.9)	✓
7.10.2	* Warning notice of method of isolation where live parts not capable of being isolated by a single device (514.11)	✓
7.10.3	* Periodic inspection and testing notice (514.12.1)	✓
7.10.4	* RCD six-monthly test notice; where required (514.12.2)	✓
7.10.5	* AFDD six-monthly test notice, where required	N/A
7.10.6	* Warning notice of non-standard (mixed) colours of conductors present (514.14)	N/A
7.11	Presence of labels to indicate the purpose of switchgear and protective devices (514.1.1; 514.8)	✓
8.0 CIRCUITS		
8.1	Adequacy of conductors for current-carrying capacity with regard to type and nature of the installation (Section 523)	✓
8.2	Cable installation methods suitable for the location(s) and external influences (Section 522)	✓
8.3	Segregation of Band I (ELV) and Band II (LV) circuits, and electrical and non-electrical services (528)	✓
8.4	Cables correctly erected and supported throughout, with protection against abrasion (Sections 521, 522)	✓
8.5	Provision of fire barriers, sealing arrangements where necessary (527.2)	✓
8.6	Non-sheathed cables enclosed throughout in conduit, ducting or trunking (521.10.1; 526.8)	N/A
8.7	Cables concealed under floors, above ceilings or in walls/partitions, adequately protected against damage (522.6.201, 522.6.202, 522.6.203, 522.6.204)	✓
8.8	Conductors correctly identified by colour, lettering or numbering (Section 514)	✓
8.9	Presence, adequacy and correct termination of protective conductors (411.3.1.1; 543.1)	✓
8.10	Cables and conductors correctly connected, enclosed and with no undue mechanical strain (Section 526)	✓
8.11	No basic insulation of a conductor outside enclosure (526.8)	✓
8.12	Single-pole devices for switching or protection in line conductors only (132.14.1; 530.3.3; 643.6)	✓
8.13	Accessories not damaged, securely fixed, correctly connected, suitable for external influences (134.1.1; 512.2; Section 526)	✓

Item No	DESCRIPTION	OUTCOME See codes above
8.14 Provision of additional protection/requirements by RCD not exceeding 30mA:		
8.14.1 * Socket-outlets rated at 32A or less, unless exempt (411.3.3)		
8.14.2 * Mobile equipment with a current rating not exceeding 32A for use outdoors (411.3.3)		
8.14.3 * Cables concealed in walls at a depth of less than 50mm (522.6.202, .203)		
8.14.4 * Cables concealed in walls/partitions containing metal parts regardless of depth (522.6.202; 522.6.203)		
8.14.5 * Final circuits supplying luminaires within domestic (household) premises (411.3.4)		
8.15 Presence of appropriate devices for isolation and switching correctly located including:		
8.15.1 * Means of switching off for mechanical maintenance (Section 464; 537.3.2)		
8.15.2 * Emergency switching (465.1; 537.3.3)		N/A
8.15.3 * Functional switching, for control of parts of the installation and current-using equipment (463.1; 537.3.1)		
8.15.4 * Firefighter's switches (537.4)		N/A

9.0	CURRENT-USING EQUIPMENT (PERMANENTLY CONNECTED)	
9.1	Equipment not damaged, securely fixed and suitable for external influences (134.1.1; 416.2; 512.2)	
9.2	Provision of overload and/or under voltage protection e.g. for rotating machines, if required (Sections 445, 552)	
9.3	Installed to minimize the build up of heat and restrict the spread of fire (421.1.4; 559.4.1)	
9.4	Adequacy of working space. Accessibility to equipment (132.12; 513.1)	

10.0	LOCATION(S) CONTAINING A BATH OR SHOWER (SECTION 701)	
10.1	30 mA RCD protection for all LV circuits, equipment suitable for the zones, supplementary bonding (where required) etc.	

11.0	OTHER PART 7 SPECIAL INSTALLATIONS OR LOCATIONS	
List all other special installations or locations present, if any.		

N/A

Comments on existing installation

n/a

Inspected by

Name (Capitals)	Signature	Date
Conor Evans		03/11/2021

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DB-1 - Hallway - (BG) (10 ways)

Applies in every case						Characteristics at this board									
DB name	DB-1			Supplied from	Origin			Supply polarity confirmed							
Location	Hallway			No of circuits	10	No of phases	1	Phase sequence confirmed							
Overcurrent protective device for the supply circuit						Measurements at this board									
BS(EN)	1361-II	Rating (A)	80	Voltage Rating (V)	-	Zs (Ω)	0.13	Ipf (kA)	1.7	IΔn (ms)	N/A				
BS(EN)	60947-3	Rating (A)	100	Voltage Rating (V)	230	Fault current rating (kA)	-	RCD Rating (mA)	N/A	IΔn (ms)	-				
Main switch at this board						5IΔn (ms)									
BS(EN)	60947-3	Rating (A)	100	Voltage Rating (V)	230	Fault current rating (kA)	-	RCD Rating (mA)	N/A	IΔn (ms)	-				
CIRCUIT DETAILS															
Cct No	Designation			No of points	Wiring type	Ref method	Live (mm²)	cpc (mm²)	Dis time (s)	BS(EN)	Rating (A)	Short circuit (kA)	Voltage Rating (V)	Max Zs (Ω)	IΔn (mA)
1	Cooker			1	A	C	2.5	1.5	0.4	60898-B	32	6	400	1.37	30
2	Sockets			7	A	C	2.5	1.5	0.4	60898-B	32	6	230	1.37	30
3	Lights			11	A	C	1	1	0.4	60898-B	6	6	400	7.28	30
4	lights up and Smokes			8	A	101	1	1	0.4	60898-B	6	6	400	7.28	30
5	Sockets			9	A	C	2.5	1.5	0.4	60898-B	32	6	400	1.37	30
6	Heating			1	A	C	2.5	1.5	0.4	60898-B	6	6	400	7.28	30
7	Alarm			1	A	C	1	1	0.4	60898-B	6	6	400	7.28	30
8	Door bell			1	A	C	1	1	0.4	60898-B	6	6	400	7.28	30
9	Spare			-	-	-	-	-	-	-	-	-	-	-	-
10	Spare			-	-	-	-	-	-	-	-	-	-	-	-

TEST RESULTS DB-1 - Hallway - (BG 10 ways)

		Ring final circuits (measured end to end)			At least one column to be completed		Insulation resistance						RCD		AFDD		
Cct No	Designation	(r1) (Ω)	(rn) (Ω)	(r2) (Ω)	R1+R2 (Ω)	R2 (Ω)	IR Test voltage (V)	L-L (MΩ)	L-E (MΩ)	Polarity	Meas Zs (Ω)	Meas kA	RCD at IΔn (ms)	RCD at 5IΔn (ms)	RCD Test button	AFDD Test button	Circuit vulnerable to test
1	Cooker	-	-	-	.15	-	500	>200	>200	✓	.28	-	-	15	✓	N/A	No
2	Sockets	.48	.48	.74	.30	-	500	>200	>200	✓	.48	-	-	15	✓	N/A	No
3	Lights	-	-	-	.42	-	500	>200	>200	✓	.55	-	-	15	✓	N/A	No
4	lights up and Smokes	-	-	-	1.12	-	500	>200	>200	✓	1.25	-	-	15	✓	N/A	No
5	Sockets	.37	.37	.55	.23	-	500	>200	>200	✓	.40	-	-	12	✓	N/A	No
6	Heating	-	-	-	.37	-	500	>200	>200	✓	.50	-	-	12	✓	N/A	No
7	Alarm	-	-	-	.23	-	500	>200	>200	✓	.35	-	-	12	✓	N/A	No
8	Door bell	-	-	-	.17	-	500	>200	>200	✓	.30	-	-	12	✓	N/A	No
9	Spare	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	Spare	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

ENGINEER AND TEST INSTRUMENTS

Multifunction	Continuity	Insulation resistance	EFLI Tester	RCD tester
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Tested by (Capitals)	Signature		Date	
Conor Evans			03/11/2021	

Produced by electraform® 2021 based on the MODEL FORM from BS7671:2018 (18th Edition)

ADDITIONAL EXTENT OF INSTALLATION TEXT- CONTINUED FROM FIRST PAGE OF THIS CERTIFICATE

Continued from first page...

Install of lighting and power

ELECTRICAL INSTALLATION CERTIFICATE GUIDANCE FOR RECIPIENTS

This CERTIFICATE is an important and valuable document which should be retained for future reference.

- This safety certificate has been issued to confirm that the electrical installation work to which it relates has been designed, constructed, inspected and tested in accordance with British Standard 7671:2018 as amended (the IET Wiring Regulations).
- You should have received a Certificate without watermarks and the company should have retained a duplicate. If you were the person ordering the work, but not the owner of the installation, you should pass this Certificate, or a full copy of it including the schedules, immediately to the owner.
- This Certificate should be retained in a safe place and be shown to any person inspecting or undertaking further work on the electrical installation in the future. If you later vacate the property, this Certificate will demonstrate to the new owner that the electrical installation complied with the requirements of British Standard 7671 at the time the Certificate was issued. The Construction (Design and Management) Regulations require that, for a project covered by those Regulations, a copy of this Certificate, together with schedules, is included in the project health and safety documentation.
- For safety reasons, the electrical installation will need to be inspected at appropriate intervals by a skilled person or persons, competent in such work. The maximum time interval recommended before the next inspection is stated on Page 1 under "NEXT INSPECTION".
- This Certificate is intended to be issued only for a new electrical installation or for new work associated with an alteration or an addition to an existing installation. It should not have been issued for the inspection of an existing electrical installation. An "Electrical Installation Condition Report (EICR)" should have been issued for such an inspection.
- This Certificate is only valid if accompanied by the Schedule of Inspections and the Schedule(s) of Test Results.

CODES FOR TYPE OF WIRING

A	B	C	D	E	F	G	H	O (Other)
Thermoplastic insulated/sheathed cables	Thermoplastic cables in metallic conduit	Thermoplastic cables in non-metallic conduit	Thermoplastic cables in metallic trunking	Thermoplastic cables in non-metallic trunking	Thermoplastic / SWA cables	Thermosetting / SWA cables	MICC cables	Other cable types not listed here
FP	TR	HT	SY	YY	CY	VIR		
FP 200 - standard fire resistant cable	Tri-rated - BS 6231 high temperature - flame retardant cable	Hi Tuff - waterproof with a tough PVC sheathing for outdoor use	SY cable - flexible instrumentation cable with a galvanised steel wire braid	YY cable - flexible instrumentation cable with a galvanised steel wire braid	CY cable - flexible instrumentation cable with a galvanised steel wire braid and a PETP separator	VIR - Vulcanised Indian Rubber cable - no longer manufactured		

Certificate produced by electraform® 2021 based on the MODEL FORM from BS7671:2018: as amended

CERTIFICATE



SMOKE ALARM INSTALLATION CERTIFICATE

CERTIFICATE No: FASMOKE-20211210081339

2 Tavern Close (PLOT 1)
Ilkeston
DE7 8LS

The following work was carried out at the address above

Domestic smoke, heat and CO2 alarms to property.

This Certificate deems the installation to be in the following condition:

SATISFACTORY

Company issuing this Certificate

James Booth Electrical LTD
Unit 27, Sherwood Network Centre
Sherwood Energy Village
Ollerton
NG22 9FD
0800 6785281
info@jamesboothelectrical.co.uk
CPS Enrolment No: 29092

Issued on

09/11/2021

Inspected by

Conor Evans

A handwritten signature of the name "Conor Evans".

Reviewed by

James Booth

A handwritten signature of the name "James Booth".

Certificate generated by electraform® 2021 | www.electraform.co.uk



CERTIFICATE NO: FASMOKE-20211210081339

CERTIFICATE OF DESIGN - INSTALL - COMMISSIONING OF
A SMOKE ALARM SYSTEM TO GRADE A, C, D1, D2, F1, F2

For Domestic Premises to BS 5839-6:2019

DETAILS OF THE CLIENT

Client name

Hodgkinson Builders Limited

Address

Unit 36, Royal Scot Road, Pride park

Town

Derby

County

Derbyshire

Postcode

DE24 8AJ

Telephone

01332228944

Mobile

-

Email

-

DETAILS AND SYSTEM CATEGORY OF THE FIRE DETECTION AND ALARM INSTALLATION

Occupier name

-

Address

2 Tavern Close (PLOT 1)

Town

Ilkeston

County

-

Postcode

DE7 8LS

Telephone

-

System is	<input checked="" type="checkbox"/> New	<input type="checkbox"/> A modification				
System Category	<input type="checkbox"/> LD1	<input checked="" type="checkbox"/> LD2	<input type="checkbox"/> LD3			
System Grade	<input type="checkbox"/> A	<input type="checkbox"/> C	<input checked="" type="checkbox"/> D1	<input type="checkbox"/> D2	<input type="checkbox"/> F1	<input type="checkbox"/> F2

Extent of the fire detection and alarm system covered by this certificate

Domestic smoke, heat and CO₂ alarms to property.

SYSTEM EXAMINATION

The entire system has been inspected and tested for satisfactory operation in accordance with the recommendations of BS 5839-6:2019

Instructions in accordance with the recommendations of Clause 24 of BS 5839-6:2019 have been supplied to:

Builder

BRIEF DESCRIPTION OF AREAS PROTECTED

detectors in all circulation areas that form part of the escape routes from the premises, and in all specified rooms or areas that present a high fire risk to occupants, including the kitchen.

DETAILS OF THE COMPANY

Trading title

James Booth Electrical LTD

Postcode

NG22 9FD

Company email

info@jamesboothelectrical.co.uk

Address

Unit 27, Sherwood Network Centre

Telephone no

0800 6785281

Website

www.jamesboothelectrical.co.uk

Town

Sherwood Energy Village

Mobile number

-

County

Ollerton

Enrolment no

29092

CERTIFICATE OF DESIGN - INSTALLATION - COMMISSIONING

Where design, installation and commissioning are not all the responsibility of a single person or organisation, the relevant items should be ticked to indicate which aspect of this certificate they are responsible for. The signatory of this certificate should sign only as confirmation that the work which they have been responsible complies with the relevant recommendations of BS 5839-6:2019. A separate certificate(s) should be issued for all other aspects if not covered by this certificate. The extent of liability of the signatory is limited to the system described in this certificate.

This Certificate is for:

 Design Installation Commissioning

Engineer

Name

Conor Evans

Signature

Certificate authorised by

Name

James Booth

Signature

Position

Electrician

Date

09/11/2021

Position

Qualified Supervisor

Date

09/11/2021

NOTES: CERTIFICATE OF DESIGN - INSTALLATION - COMMISSIONING OF A SMOKE/HEAT ALARM SYSTEM FOR DOMESTIC PREMISES

This CERTIFICATE is an important and valuable document which should be retained for future reference.

- This certificate may be required by an authority responsible for enforcement of fire safety legislation, such as the building control authority or housing authority.
- The recipient of this certificate might rely on the certificate as evidence of compliance with legislation.
- Liability could arise on the part of any organization or person that issues a certificate without due care in ensuring its validity.
- This Certificate should be retained in a safe place and be shown to any person inspecting or undertaking further work on the fire detection and alarm system in the future.

Certificate produced by electraform® 2021 based on the requirements of BS 5839-6:2019

Landlord Gas Safety Record

Cert. No. GR1718-236

Safety Inspection and reporting carried out in accordance with the Gas Safety (Installation and Use) Regulations and the Gas Industry Unsafe Situations Procedure.

Company / Installer		Job Address		Customer / Landlord	
Engineer	Jason Fothergill	Name	Tenant	Name	
Company	365 Plumbing & Heating Ltd	Address	2	Company	Hodgkinson Builders
Address	5 Oak House		TAVERN CLOSE	Address	36
	Samuel Brunts Way		ILKESTON		Royal Scot Road
	Mansfield				Derby
Post Code	Notts	Post Code	DE7 8LS		Derbyshire
Tel No.	01623 245365	Tel. No		Post Code	DE248AJ
Gas Safe Reg	513297			Tel. No	
ID Card No.	4206830				

	Location	Appliance Type	Make	Model	Flue Type	Landlord's Appliance	Appliance Inspected	Operating Pressure (mbar)	Heat Input (kW/h)	High Combustion Reading			Low Combustion Reading			Safety device(s) correct operation	Ventilation Provision satisfactory	Visual condition of flue and termination satisfactory	Flue Performance test	Appliance Serviced	Appliance safe to use
										Ratio	CO ppm	CO2 %	Ratio	CO ppm	CO2 %						
1	KITCHEN	Boiler	VAILLANT	SUSTAIN 24	RS	Yes	Yes	22	23.4	0.008	75	9.2	0.0001	10	8.7	Yes	Yes	Yes	Pass	No	Yes
2	KITCHEN	HOB	LAMONA	UNKNOWN	FL	Yes	Visual	NA	NA	NA	NA	NA	NA	NA	NA	Yes	Yes	NA	NA	No	Yes
3																					
4																					
5																					
6																					

Defects / Identified	Labels and Warning Notice Issued
1	NA
2	NA
3	
4	
5	
6	

CO Alarm(s)	Smoke Alarm(s)
CO Alarm(s) fitted	No
CO Alarm(s) tested and Satisfactory	NA

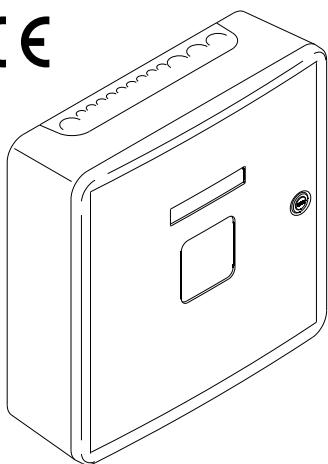
Emergency Control Accessible Yes Gas Tightness Satisfactory Yes Gas Installation Pipework Visual Inspection Satisfactory Yes Equipotential Bonding Yes	Comments
NEXT INSPECTION DUE ON OR BEFORE 12-Jan-2023	

Issued by: Signed 	Received Signed by: 	Date 12-Jan-2022	Print Name Jason Fothergill
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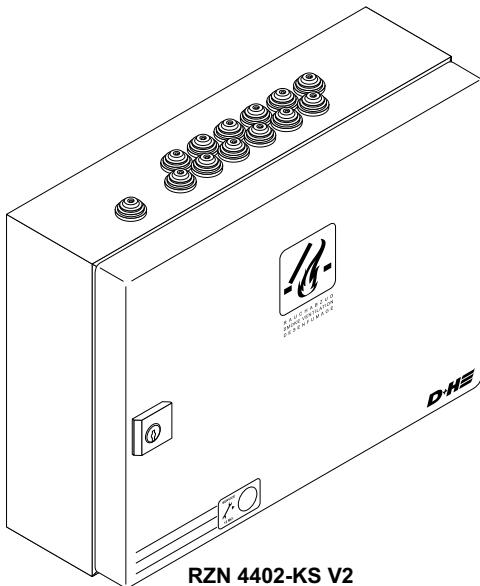


DYER
D+H

CE



RZN 4402-K V2
(ZP RZN 4402-K V2 + GEH-KST)
RZN 4404-K V2
(ZP RZN 4404-K V2 + GEH-KST)



RZN 4402-KS V2
(ZP RZN 4402-K V2 + GEH-S-RWA)
RZN 4404-KS V2
(ZP RZN 4404-K V2 + GEH-S-RWA)



G 501002
Anerkennungs-Nr.
approval-no.



0786 - CPD - 50383
EN 12101-10 : 2005/AC:2007
conform



B 06 05 22802 024
Zertifikat-Nr.
certificate-no.



CNBOP
0669/2009

RZN 4402-K V2 / RZN 4404-K V2 instructions

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Introduction

D+H service and sales partners

Safety in the building not only comes from the product. Above all, safety results from competence. All D+H service and sales partners are certified and regularly trained specialist SHEV businesses. Working closely with D+H Mechatronic AG as the manufacturer, they develop comprehensive system solutions for SHEVs and natural building ventilation. With integral customer support and continuous quality assurance in all phases of the project: from sales advice, planning and project management through to installation, commissioning, repair and service. The highest national and international quality standards are therefore reliably fulfilled.

Installation and operation

The comprehensive network of D+H service and sales partners is at your disposal to professionally install your system and commission it. Our partner system guarantees that D+H products are installed exclusively by trained and experienced fitters, in compliance with the technical guidelines and specifications. Personal handover and training for users is included.

Maintenance and repair

Every building operator is responsible for ensuring that its safety equipment works reliably. Regular and professional maintenance ensures that your system is always operational. As specialist SHEV businesses, the D+H service and sales partners are best qualified to carry out maintenance. By taking out a maintenance contract, operators can prove at all times that they have fulfilled their obligations.

Quality with guarantee

For all D+H SHEV systems, which have been installed by a D+H service and sales partner and are regularly serviced, you will receive extended warranty services. Ask your local D+H service and sales partner about this.

Always nearby

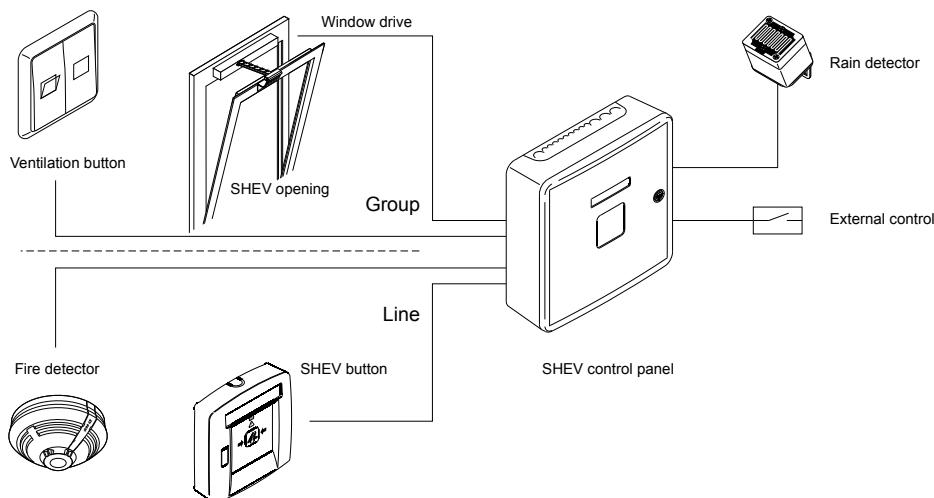
With the network of our own subsidiaries and exclusive partners, we are represented nearly all over the world.

Are you looking for your local D+H partner?

Simply visit our website:

www.dh-partner.com

Assembly scheme



Intended use

- SHEV control panel in particular for staircases
- Microprocessor based control panel
- 1 line, 1 group
- 2A or 4A actuating current
- Comfort functions for daily ventilation
- Only for inside mounting

SHEV opening

Smoke gases are to be carried off as unhindered as possible through smoke and heat vent opening in case of fire. Size, kind and arrangement of the opening is of decisive significance for an optimal effect of the smoke and heat vent system. These requirements are defined in the relevant regulations of the respective country.

More informations, are also available under www.rwa-heute.de.

The SHEV opening should be coordinated with the responsible fire protection authority.

Safety notes

Operating voltage 230 V AC!

Risk of injury from electric shock!

- Connection has to be carried out only by an authorized electrical specialist
- Only for inside mounting
- Just use unchanged original D+H parts

Servicetimer

An overdue maintenance of the system will be indicated by the control panel after about ca. 14 to 16 months.

The yellow LED in the smoke vent button will start flashing.

A malfunction of the smoke vent system will be still indicated by the extinction of the green LED in the smoke vent button.

After the maintenance time is expired (approx. 14 to 16 months), the ventilation function OPEN can be interrupted depending on the presetting of the service timer.

Attention: Reset of the service timer can be carried out by a specialist company only, who has been authorized by the appliance manufacturer.

Important regulations

Observe regulations for danger warning systems VDE 0833, guidelines for electrical systems VdS 2221, VDE 0100, DIN 18232 for smoke and heat vent systems, regulations of the local fire-brigade and of EVU for connection to mains supply.

Repair and cleaning

Inspection and maintenance has to be carried out according to D+H maintenance notes. Only original D+H spare parts may be used. Repair is to be carried out exclusively by D+H.

Wipe away debris or contamination with a dry, soft cloth.

Do not use cleaning agents or solvents.

Declaration of Conformity

We declare under our sole responsibility that the product described under "Technical Data" is in conformity with the following directives:

2004/108/EC, 2006/95/EC, 89/106/EC

Technical file at:
D+H Mechatronic AG, D-22949 Ammersbek

Thomas Kern
Member of the Board
22.12.2010

Maik Schmees
Authorized signatory,
Technical Director

Disposal

Electrical devices, accessories, batteries and packaging should be sorted for environmental-friendly recycling.

Do not dispose electrical devices and batteries into household waste!

Only for EC countries:

According the European Guideline 2002/96/EC for waste electrical and electronic equipment and its implementation into national right, electrical devices that are no longer usable must be collected separately and disposed of in an environmentally correct manner.



Technical data

Type	ZP RZN 4402-K V2	ZP RZN 4404-K V2
Power supply	230 VAC, 50 Hz	230 VAC, 50 Hz
Rated power	60 VA	120 VA
Stand-by operating	5,6 W	5,8 W
Output voltage	24 V DC	
Ripple	2 Vss, load-dependent	
Output rated current	2 A	4 A
Number of lines / groups *	1/1	1/1
Fire detector per line	max. 14 pcs.	max. 14 pcs.
SHEV button per line	max. 8 pcs.	max. 8 pcs.
Current per group **	max. 2 A	max. 4 A
Mode of operation		
- Monitoring	Continuous duty	
- Alarm / Ventilation	Short-time duty (30 % DC)	
Temperature range	-5 ... +40 °C	

* D+H Highspeed (HS) drives will be supported.

** The total current of the control panel must not be exceeded.

Housing	GEH-KST	GEH-S-RWA
Material	Plastic with steel sheet door	Steel sheet
Colour	white	light grey
Ingress protection	IP 30	IP 54
Protection class	II, with functional ground	I
Dimensions WxHxD	310 x 310 x 100 mm	400 x 300 x 120 mm

24 V - Emergency supply

Emergency power supply for 72 hours.

Use VdS approved storage batteries only!

RZN 4402-K(S) V2: 2x 12V / 1,2 Ah ±0,2Ah (Type 1)

RZN 4404-K(S) V2: 2x 12V / 2,2 Ah ±0,3Ah (Type 2)

With connection of D+H alarm devices:

RZN 4402-K(S) V2: 2x 12V / 2,2 Ah ±0,3 Ah (Type 2)

RZN 4404-K(S) V2: 2x 12V / 3,4 Ah ±0,3 Ah (Type 8)

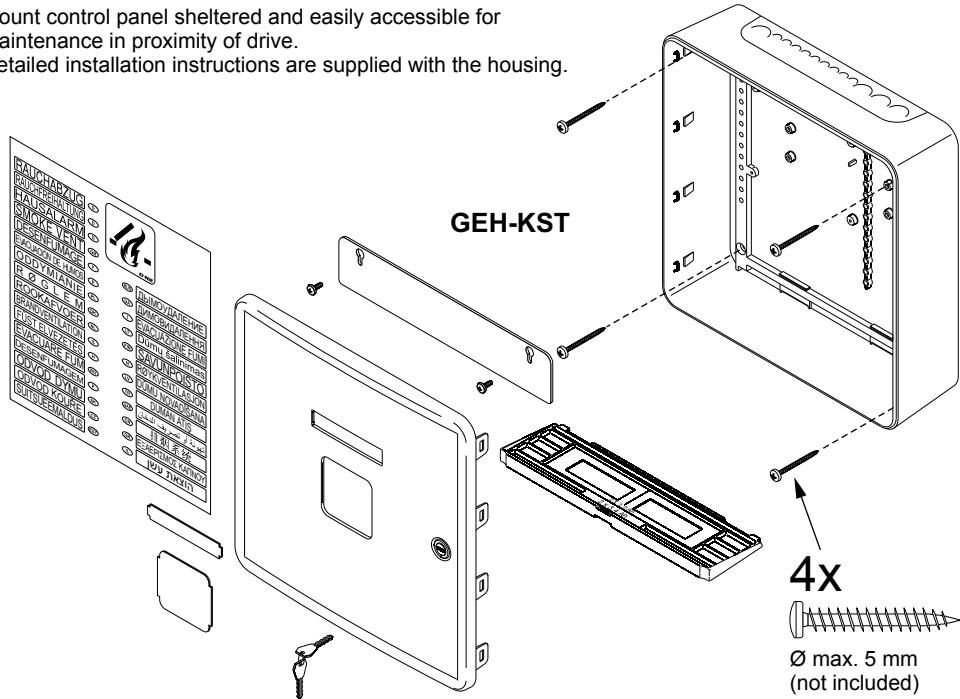
(* Only with -KS version possible!)

Pictogram explanation

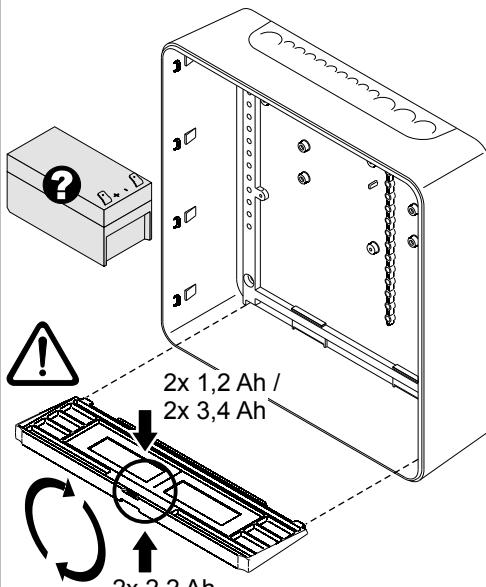
	SHEV alarm
	Malfunction
	Control panel O.K.
	D+H window drive
	Mains existing
	Vent button function "OPEN"
	Smoke-/ vent button function "CLOSE"
	Charging voltage regulator
	Ground short
	OPEN running time limitation
	ventilation time limitation

Mounting of SHEV control panel with housing GEH-KST

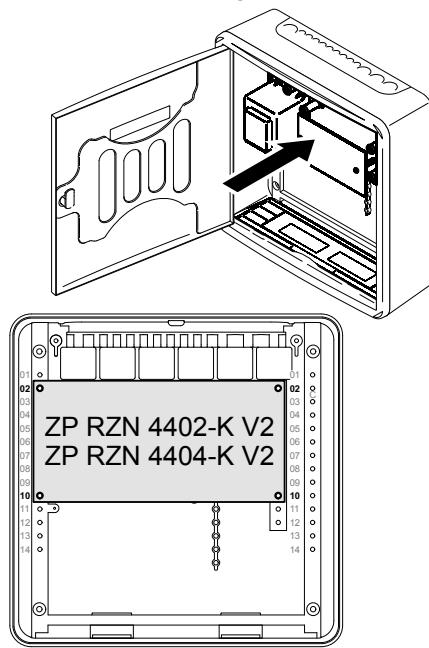
Mount control panel sheltered and easily accessible for maintenance in proximity of drive.
Detailed installation instructions are supplied with the housing.



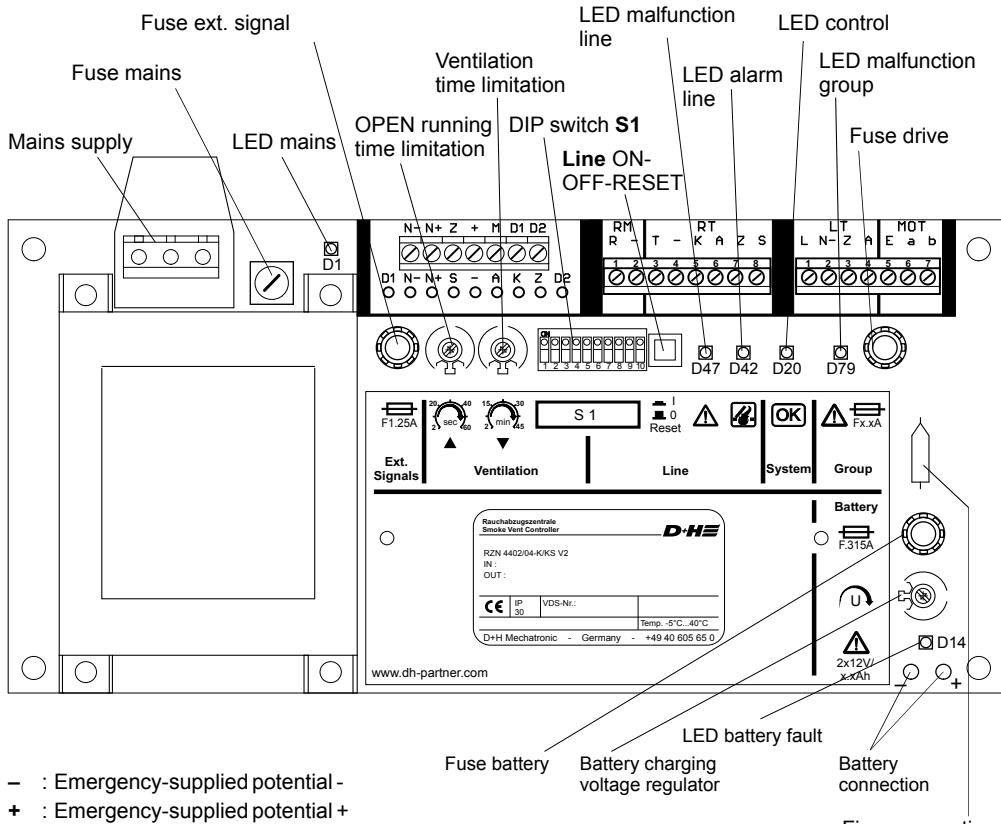
Install batteries:



Position of the central pcb:



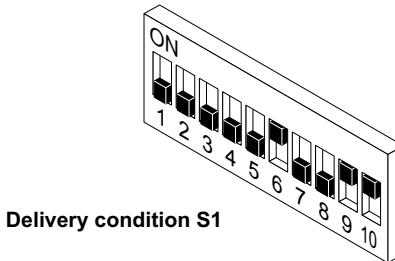
View motherboard



- : Emergency-supplied potential -
- + : Emergency-supplied potential +
- N- : Not emergency-supplied potential -
- N+ : Not emergency-supplied potential +
- A : General alarm
- K : Control
- S : General fault
- M : Magnetic clamp control
- Z : Input, central function, closing of group

* For monitoring of the internal temperature of the control device. If the internal temperature is exceeding 72°C (caused by radiant heat of a fire in immediate vicinity of the mounting place), the entire smoke and heat vent system will be emergency opened under alarm conditions.

DIP switch settings



1 = ON	OPEN-running time limitation in ventilation operation (Only if DIP switch 6 = ON). Using a potentiometer, running time in OPEN direction can be limited. If the vent button is actuated in OPEN direction, the drive will run open as long as the running time is set.	
2 = ON	Ventilation time limitation (Only if DIP switch 5 = ON). Using a potentiometer, ventilation tim can be set. Drives will automatically close again, after the adjusted time has expired.	
3 = ON	OPEN-retriggering (Only if DIP switch 1 = ON) The OPEN-running time limitation can be retriggered again.	
4 = ON	Power failure "CLOSE" (Only if DIP switch 5 = ON). In case of power failure the drives will close.	
5 = ON 5 = OFF	Drives CLOSE up to final position by single pressing on vent button Drives are closing only so long as the vent button or the button "close SHEV" in the smoke vent button is pressed . OPEN-display on vent button is no longer possible then! The function power failure-CLOSE will be ineffective (see DIP switch 4).	
6 = ON 6 = OFF	Drives OPEN up to final position by single pressing on vent button. Drives are opening only so long as the vent button is pressed.	
7 = ON	In case of a line fault (e.g. at an interrupted detector line or short circuit) the control panel will be switched on alarm, that means the smoke vent opens .	
8 = ON	In case of a group fault (e.g. in case of an interrupted monitoring line) the control panel will be switched on alarm, that means the smoke vent opens . DIP switch must be on ON in conjunction with a ground in thermal maximal detector (e.g. THE4).	
9 = ON 9 = OFF	Smoke detector alarm can not be reset by single pressing on the button "close SHEV" in the smoke vent button. Smoke detector alarm will be reset by pressing on the button "close SHEV" in the smoke vent button.	
10 = ON	SHEV retriggering on. The smoke vent is triggered for a duration of 30 minutes in intervals of 2 minutes according to VdS 2581.	

Cables for D+H smoke and heat vent systems

When selecting and installing the cables, the regional electrical installation regulations concerning wiring systems and the necessary safety equipment, or guidelines on integrity maintenance of electric lines are observed (e.g. MLAR).

Notice:

No type designation is given for these cables, because of a large variety on the market.
Please consult your D+H partner.

Group cable (control panel - drive)

At least three wire design:

- 2 wires for the supply of the drive
- 1 wire for line monitoring, on which also the SHEV high speed (HS) signal is transmitted to the drive. If group DIP switch 8 is ON, the group will in case of a fault automatically triggered and opens.

Line cable (control panel - detector)

The cables are monitored for short circuit and for interruption. If line DIP switch 7 is ON, the group will in case of a fault automatically triggered and opens.

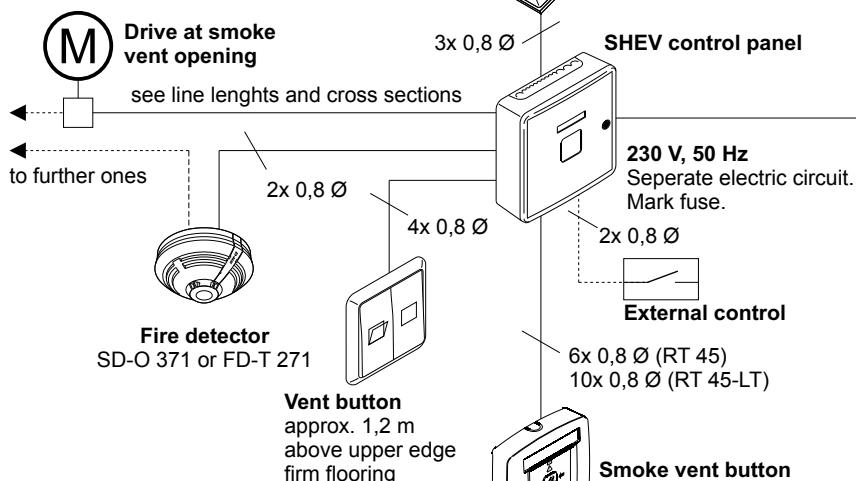
Wiring plan (Paragon)

System voltage 24 V!

Do not run cables with together power lines!

In case of a cable with ground wire (green / yellow) this must not be used!

Cable and terminal boxes have to be labeled.

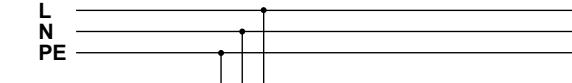


Line lengths and cross sections

Type	RZN 4404 - K							
	RZN 4402 - K							
Total current	0,5	1	1,5	2	2,5	3	3,5	4
3 x 1,5 mm ²	240	120	80	60	48	40	34	30
3 x 2,5 mm ²	400	200	130	100	80	65	55	50

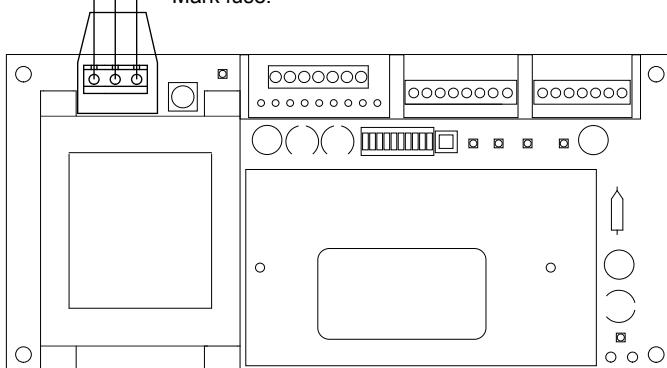
$$\text{Cross section (mm}^2\text{)} = \frac{\text{Cable lenght (m)} \times \text{Total current}}{80}$$

230 V supply



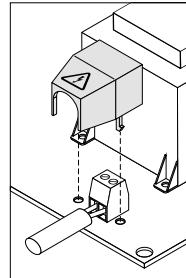
Protective earth (PE)
Only with KS-Version.

230 V, 50 Hz
Separate electric circuit..
Mark fuse.

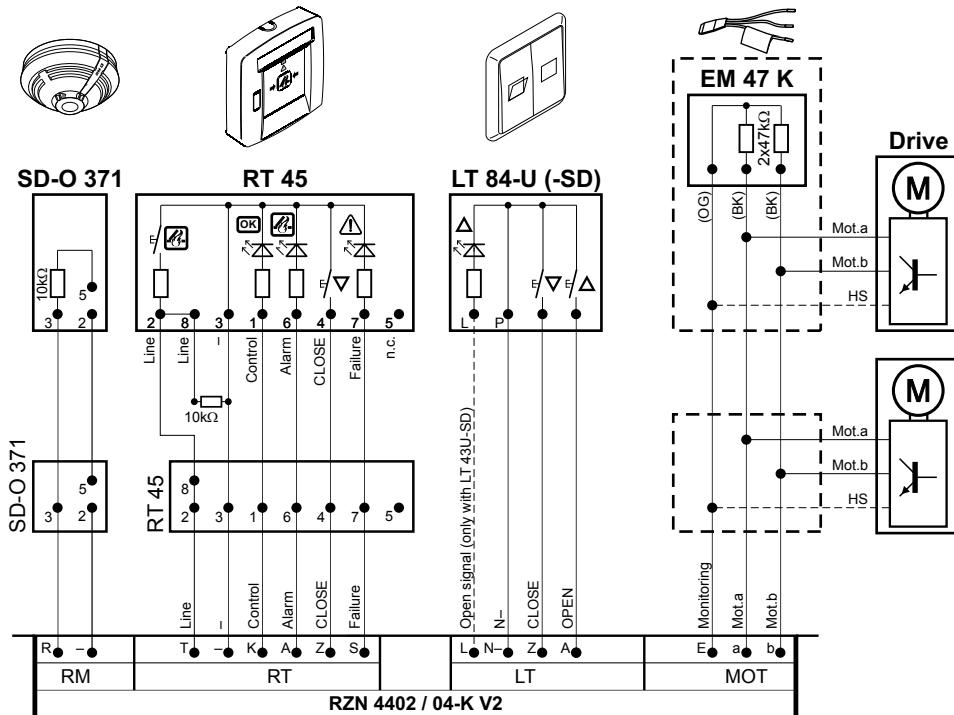


Protection cap:

Place enclosed protection cap over supply terminal after mains cable has been connected.



Connection overview

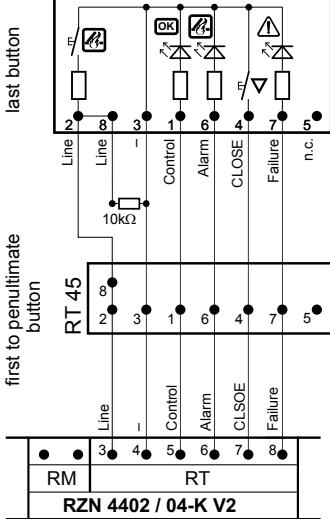


Connection of smoke vent buttons

Max. 8 buttons per line connectable.

Standard connection

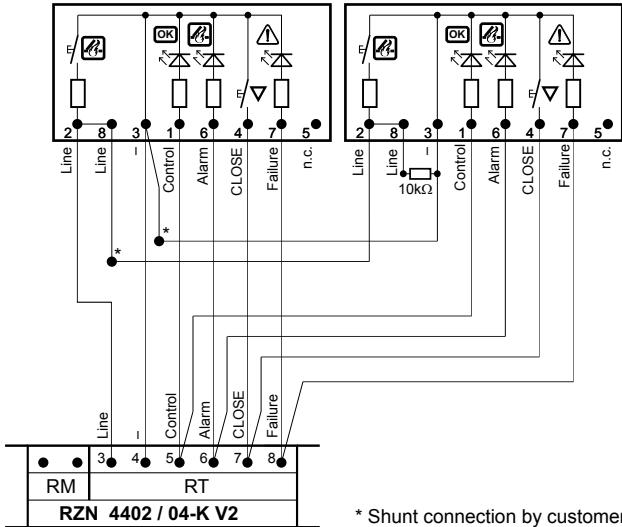
RT 45



Parallel connection

RT 45

RT 45



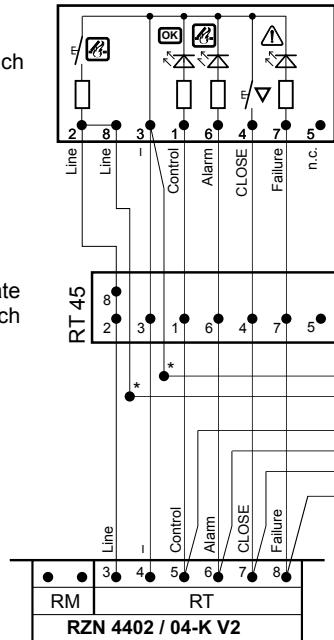
Parallel connection of 2x 2 buttons

RT 45

RT 45

last button each

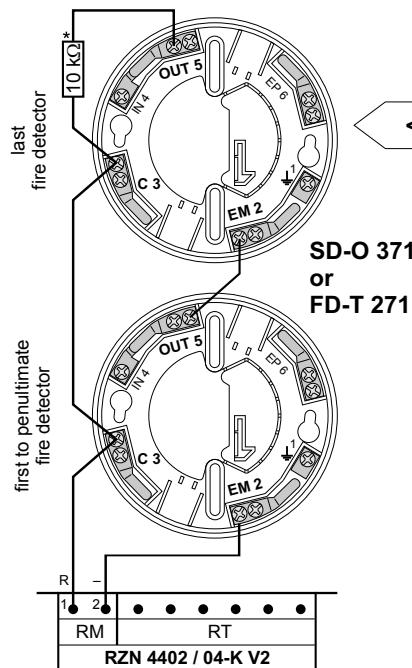
first to penultimate button each



Connection of fire detector

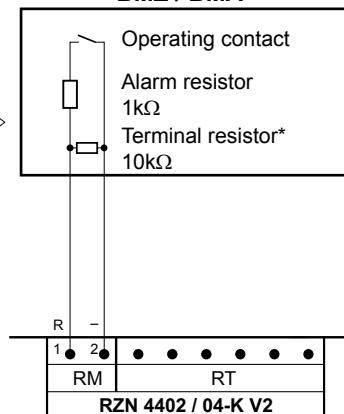
Max. 14 fire detectors connectable.

Only D+H approved detectors must be used.



Connection of fire alarm system

BMZ / BMA



* Terminal resistors for line monitoring

It is pinched in control panel for transport.

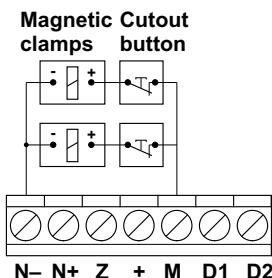
Take it off there and connect according to plan.

Terminal resistor must remain at terminal RM 1,2, when no fire detector or external control exists!

Connection of magnetic clamps

Magnetic clamps 24V (max. 500 mA overall power)

No output voltage during power failure!



Drives

Group output:

While an alert, a possible group disturbance will not be notified. Only after reset the alarm, a fault message will be indicated.

High-speed function (HS):

All D+H drives with SHEV high-speed function are supported. In daily ventilation operation, a considerable noise reduction is achieved through the reduced drive speed. In case of SHEV the drives run with a very high speed to reach the OPEN position defined within 60 seconds at the most.

SHEV retrigerring:

(When DIP switch S1.10 = ON)

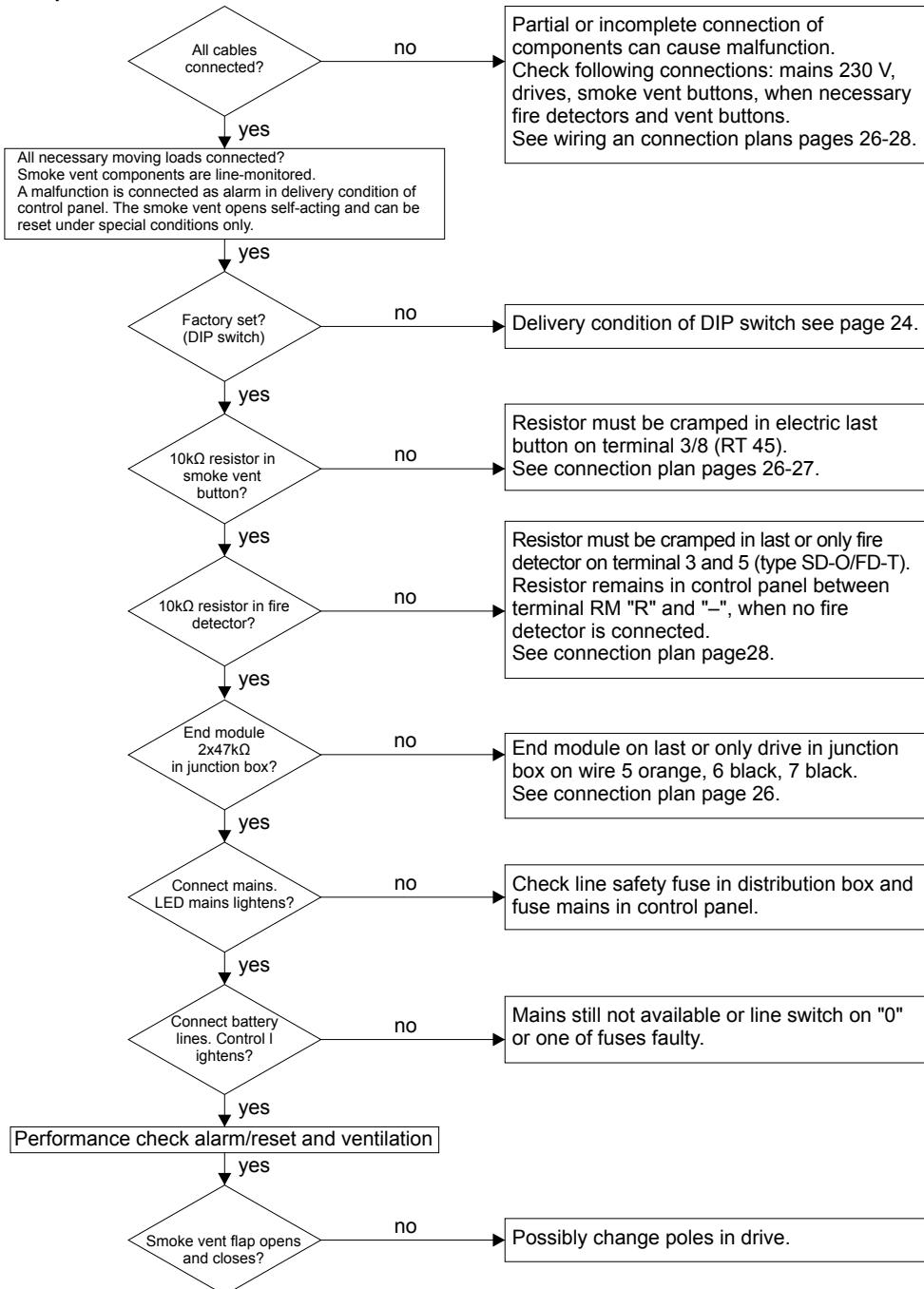
The smoke vents will be triggered with an OPEN-impulse every 2 minutes for a duration of 30 minutes according to VdS 2581. For this, the drives must be blockage safe. All D+H drives meet this precondition. Otherwise the DIP switches has to be switched on OFF.

Mounting of the drives:

Please take mounting informations from the relevant instruction for use of the respective drive, because of varied possibilities for choosing drives.

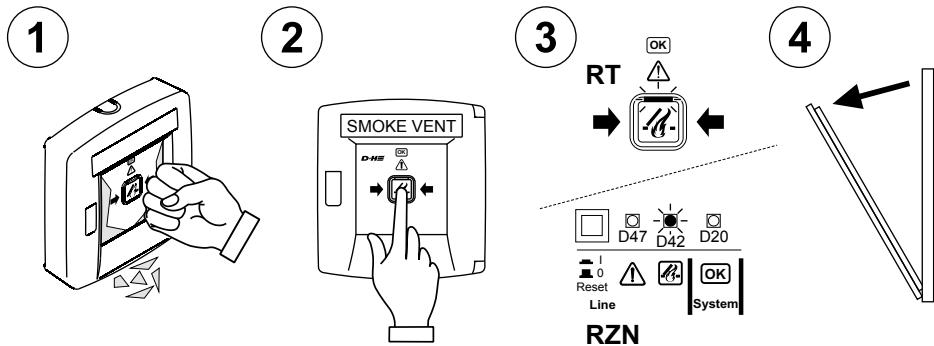
Informations for starting

Carry out following sight and performance checks for switching-on the smoke and heat vent control panel.

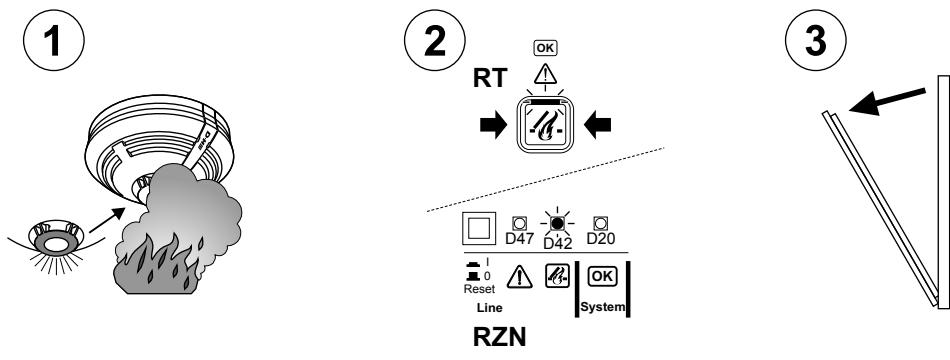


Operation - Release in case of alarm

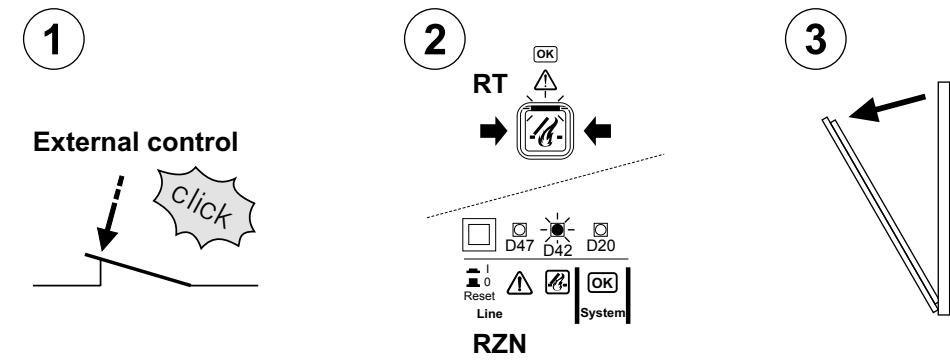
Manual opening by smoke vent button:



Automatic opening by fire detector:



Automatic opening by external control (e.g. fire alarm system):

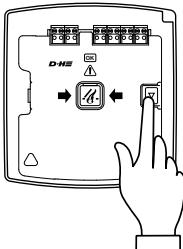


Operation - Closing after alarm

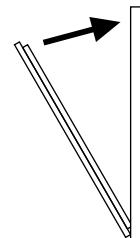
Open the housings (control panel and buttons) using the enclosed keys.

With manual release:

1

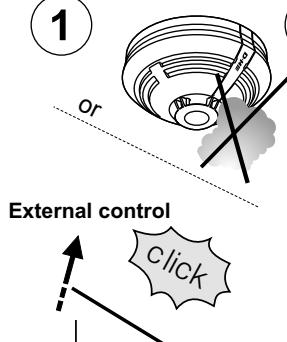


2

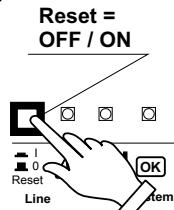


In case of automatic release by fire detector or external control:

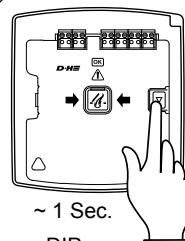
1



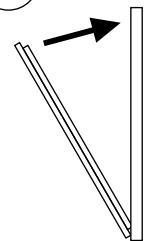
2



3



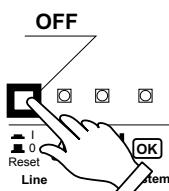
4



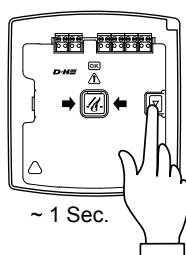
see DIP
switch
page 24

Emergency closing in case of non-resettable alarm:

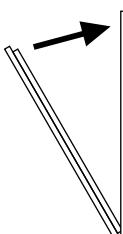
1



2



3



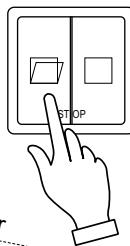
4



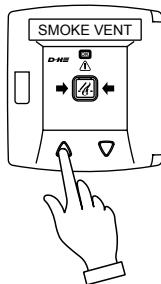
Operation - Day-to-day ventilation

Ventilation button or SHEV button with ventilation function RT 45-LT required.

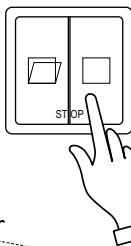
Open:



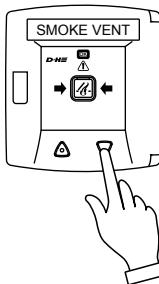
Or



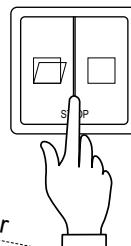
Close:



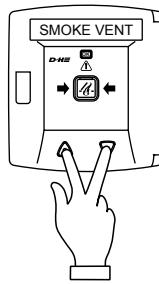
Or



Stop:



Or



Operation - Weather automatic

Only if wind detector or rain detector available.

Upon triggering of the corresponding sensor, the group of the control panel is closed.

If alarm is released by a smoke and heat vent system, the system will open also in case of wind and rain.

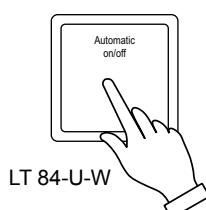
Do not ventilate via smoke vent button, because otherwise there would be a danger of damage by wind or water.

The weather automatic can be switched-off via an **optional automatic switch**, if gap ventilation is required in case of bad weather.

Gap ventilation is not possible in case of bad weather, if no automatic switch available.

If the weather automatic is switched on, the system will automatically close in case of wind or rain.

The system will not automatically open again, if wind or rain has stopped. Opening of the system for ventilation via vent button.



Inspection

Regular visual inspection between maintenance by the operator or a trained person.
Immediately correct any defects.

Indicators:

- Green LEDs in the buttons must **illuminate**.
- Yellow LEDs in the buttons and the control panel are **not allowed to illuminate or flash** (fault).
- If the green LEDs do not illuminate or if the yellow LEDs illuminate or flash, contact After Sales service.

Examination:

- Check all appliances and cable connections for outer damage and dirt accumulation.
- Fire detectors, smoke vent buttons, smoke vents and so on must not be impaired in their function by goods in storage or structural changings.

Maintenance

Once a year by a specialist company, who is authorized by the appliance manufacturer.
Renew test badge, keep log book.

The respective current D+H maintenance instruction is decisive.

D+H authorized expert companies have been specially trained by D+H for carrying out expertly this maintenance, and they get automatically the latest maintenance instructions.

Following tests must be carried out in the course of maintenance:

- Outside examination / inspection of system components
- Checking of all relevant power supply units
- Functional testing of connected system components
- Record of competent carrying-out of maintenance, and designation according to directions



Dyer Environmental Controls Ltd
Unit 10 Lawnhurst Trading Estate, Cheadle Heath,
Stockport SK3 0SD

Tel: +44 (0)161 491 4840
E-Mail: enquiry@dyerenvironmental.co.uk

www.dyerenvironmental.co.uk