



UK

EW 41

exodraft

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Location: _____

Technician: _____

Date: _____



1. UK – Product information

Symbols:

The following symbols have been used in the manual to draw attention to hazards or risk of damage to the product.

Prohibition symbol:



Failure to observe instructions marked with a prohibition symbol may result in serious or fatal injury

Danger symbol:



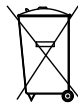
Failure to observe instructions marked with a danger symbol may result in personal injury and/or damage to the unit.



TO MINIMISE THE RISK OF FIRE, ELECTRIC SHOCK, OR PERSONAL INJURY, PLEASE OBSERVE THE FOLLOWING:

- Use the device correctly following the manufacturer's instructions. If in doubt, contact the dealer.
- Prior to servicing the device: Disconnect the power and ensure it cannot accidentally be reconnected.
- Installation work should be carried out by qualified personnel in accordance with national regulations.
- Follow the manufacturer's instructions for the device and general safety directions.
- This device must be earthed.

Disposal:



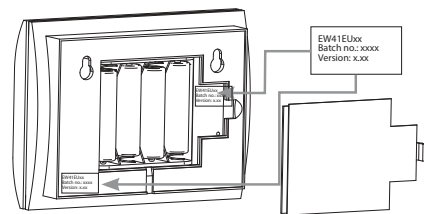
No special precautions. The product should be disposed of in accordance with national regulations governing disposal of electronic waste.

1.1 Contents of the package

Contains:

1 EW41 control panel
 1 Power unit for installation on chimney
 1 Temperature sensor
 1 Bag containing brackets for the temperature sensor, rawplugs, screws, etc.
 4 AA (LR6) batteries
 Installation and operation guide
 Quick guide

The serial number can be found at the back of the control panel (sometimes underneath the cover)



1.2 Accessories

Optional accessories (order separately)

| Item no. | Item | Description |
|--------------|---|--|
| EW41REPEATER | Signal amplifier | If the power unit and control panel have to be placed at a distance which exceeds the signal range, the signal can be boosted using a signal amplifier. This may be purchased as optional equipment. |
| 0502232 | Power adapter | If you wish to connect the control panel to mains power, use a 230 V power adapter. Batteries will then no longer be required. |
| 1100703 | Bracket for mounting on a steel chimney | If the power unit has to be mounted on a steel chimney, an installation kit is available for this purpose. |
| 0502301 | Additional control panel | If you wish to be able to operate the chimney fan from more than one control panel, several may be connected to the system. |

1.3 Application

The **exodraft** EW41 wireless controller and **exodraft** chimney fan have been developed for use with fireplaces, wood-burning stoves and solid fuel boilers.

The controller can start the chimney fan automatically in response to the temperature sensor. It can also be started by pressing the on/off switch on the control panel. The temperature sensor monitors the fireplace and provides notification when more fuel should be added. If the temperature falls even further, the chimney fan is switched off. The controller only requires simple programming in order for the EW41 to be used optimally with an open fireplace or a wood-burning stove/boiler.

The controller can also provide a warning if the chimney temperature becomes too high.

Ventilation

The controller may be used to control the chimney fan even without heat in the fireplace, if room ventilation is desired.

1.3.1 Function - with temperature sensor activated

Start-up function

Activate the EW41 by pressing the ON/OFF button on the control panel. The controller starts the chimney fan at the start-up speed. After a pre-set time interval, the speed is reduced to a lower setting. The factory setting for max. speed is 100 % for 7 min.

Automatic start

If you forget to start the chimney fan before lighting the fire, it will automatically start when the temperature sensor reaches the set start temperature. The factory setting is 40 degrees.

Add fuel function

The control panel indicates when it is time to add more fuel. **RELOAD** is displayed and the control panel beeps twice and lights up.

If you wish to add fuel, press the **OK** button before doing so. This causes the controller to maximise the draw for 3 min.

Automatic stop

When fuel is no longer added, the temperature at the sensor will slowly drop. Once the temperature has fallen to the set stop value, the controller continues to operate the chimney fan for a set time period to extract the last smoke. The factory setting is 45 min.

High-temperature warning

The control panel display will light up and it will beep five times if the sensor temperature exceeds the set value. The factory setting is 330 °C.

Pressing any button on the control panel will immediately silence the alarm.

1.3.2 Function – with temperature sensor deactivated (ventilation)

Ventilation:

If the temperature sensor has been deactivated in the user menu, the controller may be used to adjust the chimney fan speed in 10% intervals. This is useful when ventilating the room.

NB:

Automatic start and stop are also deactivated.

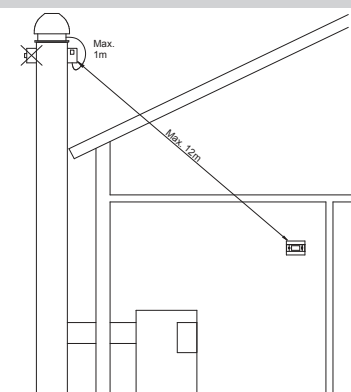
1.4 Installation

Signals

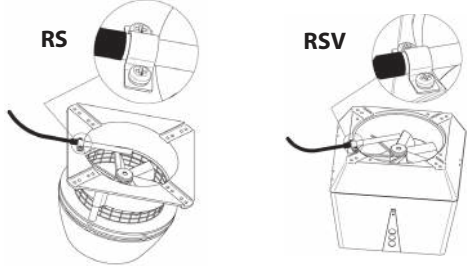
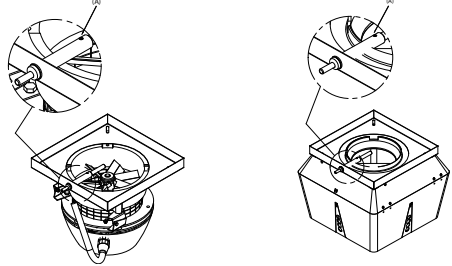
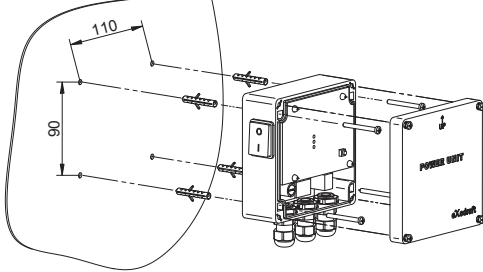
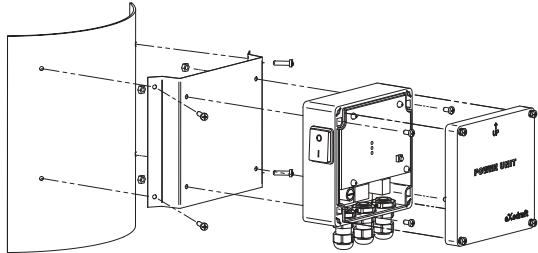
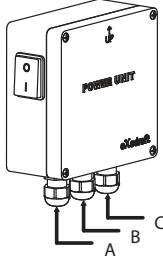
The power unit and control panel should face each other for the best possible contact. Mount the power unit on the chimney where the most direct line of sight is achieved. Max. 1 metre from the chimney fan so the cable can reach.

Range

The distance between the devices should not exceed 12 metres.

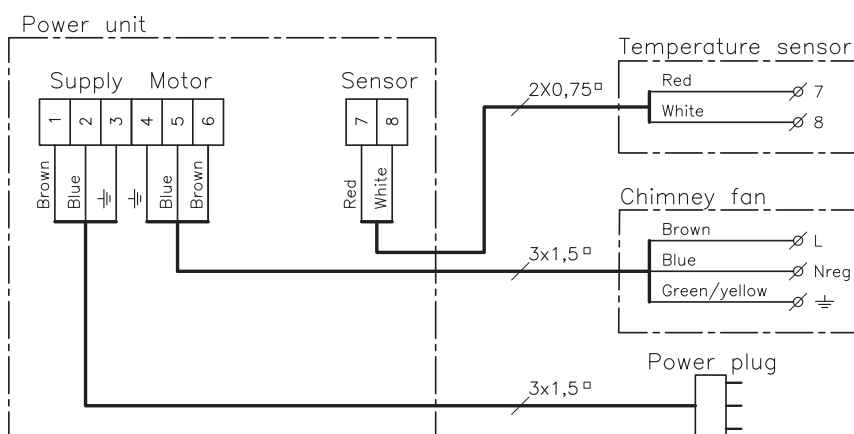


1.4.1 Installing the sensor and power unit

| Step | Action | Illustration |
|------|--|---|
| 1a | Mount the sensor on the chimney fan using the supplied bracket. Drill two 4 mm holes and insert the screws. |  |
| 1b | If an FRx-AFD flange is used: Remove the plug from the pipe, and insert the sensor. Tighten the screw (A). |  |
| 2a | <p>For brick chimneys: Drill holes as shown. (Max. 1 m from the chimney fan) Remove the lid from the power unit and mount it on the chimney using rawlplugs and screws.</p> <p>NB: Position the device where it has the best line of sight to the control panel.</p> |  |
| 2b | <p>For steel chimneys: Remove the lid from the power unit and mount the bracket (optional extra) using screws and nuts. Drill 4 mm holes in the chimney and mount the device using self-tapping screws. (Max. 1 m from the chimney fan)</p> <p>NB: Position the device where it has the best line of sight to the control panel.</p> |  |
| 3 | <p>Connect the wiring as shown on the wiring diagram (see next page).</p> <p>A = Supply power (Cable with plug is connected)</p> <p>B = Connection to chimney fan</p> <p>C = Connection to temperature sensor</p> <p>Cut back sheathing by approx. 8 cm.</p> <p>NB: Power must not be connected to the device when connecting wiring.</p> |  |

| Step | Action | Illustration |
|------|--|--------------|
| 4 | <p>Attaching armoured hose from chimney fan</p> <p>D = Remove the screw connector from the armoured hose. Keep the small plastic clamping ring!</p> <p>E = Fit the nut from the connector from the power unit.</p> <p>F = Fit the plastic clamping ring on the armoured hose.</p> <p>Attach the armoured hose to the power unit.</p> | |


1.4.2 Wiring diagram



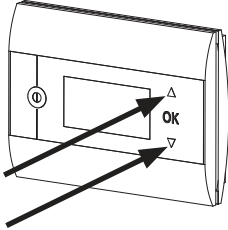


NB: Both red wires from the temperature sensor must be attached to terminal 7, and both white wires to terminal 8.

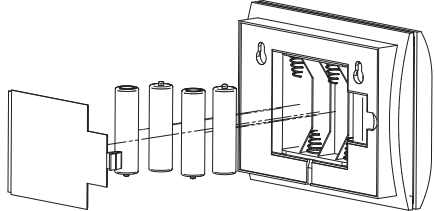

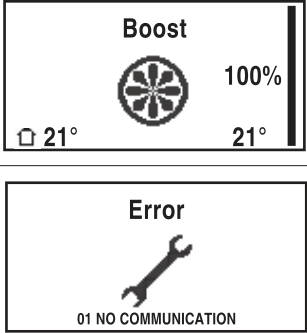
1.5 Using the control panel

Button functions

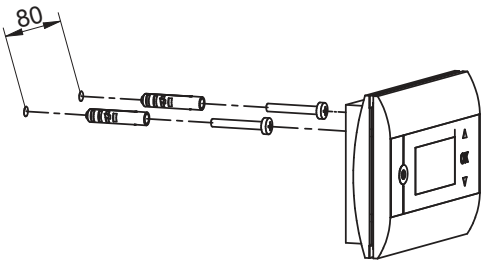
| Action | Illustration |
|--|--------------|
| <p>Button </p> <ul style="list-style-type: none"> • Press to activate display light • Press to start chimney fan • Press to stop chimney fan • Press to go back one step in the user and service menu | |
| <p>Button OK</p> <ul style="list-style-type: none"> • Press for 3 seconds to activate the user menu • Press to make selections in the user menu • Press to add fuel | |

| Action | Illustration |
|---|---|
| Button  and  <ul style="list-style-type: none"> • Press to browse in the user and service menu • Press to increase or decrease the chimney fan speed |  |

1.6 Communication test

| Step | Action | Illustration |
|------|--|--|
| 1 | Insert 4 AA (LR6) batteries |  |
| 2 | Press  <ul style="list-style-type: none"> • BOOST is displayed If ERROR is displayed <ul style="list-style-type: none"> • try moving the control panel to achieve better contact. • See signals in section 1.4 Installation on page 4 |  |
| 3 | If you wish to mount the control panel: <ul style="list-style-type: none"> • Ensure that there is signal at the location the panel is to be mounted | |


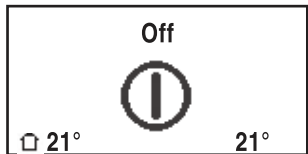



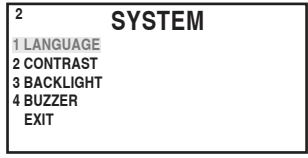



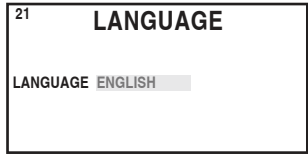
Mounting the control panel

| Step | Action | Illustration |
|------|---|--|
| 1 | When mounting the control panel: <ul style="list-style-type: none"> • Mark spacing on the wall • Drill two 5 mm holes • Insert rawlplugs and screws • Mount the control panel |  |

1.7 Using the controller

Selecting language



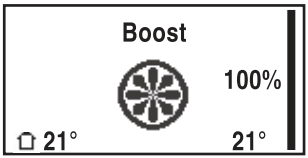


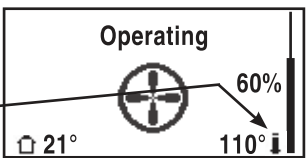
The desired display language in operation mode can be selected from the USER MENU.

| Trin | Handling | Illustration |
|------|---|--|
| 1 | Press  to switch on the display |  |
| 2 | <ul style="list-style-type: none"> • Press OK for 3 seconds to activate the user menu • Press  and  to highlight SYSTEM • Press OK to select SYSTEM |  |
| 3 | <ul style="list-style-type: none"> • Press OK to select LANGUAGE |  |
| 4 | <ul style="list-style-type: none"> • Press  and  to highlight the desired language • Press OK to select and save the desired language • Press  twice to exit user menu configuration |  |

NB:

The USER and SERVICE MENU language is selected in menu 421 (see overview in section 1.10, page 9) and can be set to ENGLISH, GERMAN or FRENCH.

1.8 Start-up

| Step | Action | Illustration |
|------|--|---|
| 1 | <ul style="list-style-type: none"> • Press  to switch on the display • Then press  to start the chimney fan <p>The controller starts up at the set speed and time interval. The factory setting is 100% for 7 min. This can be changed in user menu no. 13 and service menu 424. See the overview on page 9</p> |  |
| 2 | <p>Once the start-up period has been completed, set the desired chimney fan speed.</p> <ul style="list-style-type: none"> • Press  and  to select the desired chimney fan speed. <p>Note that a thermometer is now displayed beside the temperature. This indicates that the controller is running in automatic mode and cannot be switched off manually.</p> |  |

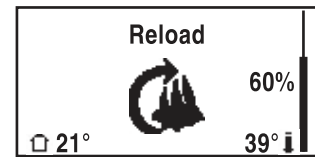
1.9 Operation

The controller will remember the selected speed until it is changed.

Function with temperature sensor activated

The temperature sensor is activated by default.
(Can be deactivated in service menu 425).

- The chimney fan speed is kept constant at the set level.
- When the temperature falls to the set limit, the controller will beep twice and the display will light up. **RELOAD** will be displayed, see illustration →



If you wish to add fuel, press **OK** and the controller will change to the set start-up speed for 3 min. The speed will then return to the most recent setting.

If you do not add fuel **POST PURGE**, will be displayed when the temperature drops to the selected stop temperature, and the controller will switch off the chimney fan after 45 min. (This time can be changed in menu 14).

NB! The thermometer icon vanishes when **POST PURGE** are displayed, making it possible to switch off the chimney fan by pressing 

Function without temperature sensor activated

The chimney fan speed is kept constant at the set level.

NB! Automatic start and stop are deactivated.

1.10 User and service menu

| Menu | | Text | Selection | Factory setting |
|------|-------------|----------------------------------|---|-----------------|
| 0 | USER MENU | USER MENUS | | |
| 1 | CHIMNEY FAN | | Chimney fan operation (available when there is signal contact with the power unit and the temperature sensor is "ON" in menu 425) | |
| | 11 | START TEMPERATURE (AUTOMATIC) | Temperature sensor start setting: 5 - 100 °C | 40 °C |
| | 12 | STOP TEMPERATURE (AUTOMATIC) | Temperature sensor stop setting: 0 - 95 °C (min. interval for start temperature is 5 °C) | 30 °C |
| | 13 | BOOST TIME (START UP) | Time interval setting for start-up: 1-15 min. | 7 min. |
| | 14 | STOP TIME (AUTOMATIC) | Time interval for stopping: 1-200 min. | 45 min. |
| | | EXIT | Return to user menu | |
| 2 | SYSTEM | | User configuration | |
| | 21 | LANGUAGE | Operating interface language: English, German, French, Danish, Norwegian, Swedish, Dutch, Finnish, Polish | English |
| | 22 | CONTRAST | Light intensity for text: 20 to 40 | 27 |
| | 23 | BACKLIGHT | Light intensity for background lighting: 5 % to 100 % | 50 % |
| | 24 | BUZZER | Beeps to indicate alarm 03 or 04, or that fuel should be added. The sound can be stopped by pressing any key. The setting for adding fuel may be either on or off | On |
| | | EXIT | Return to user menu | |
| 3 | LOG | | Display history data | |
| | 31 | POWER CONSUMPTION | Shows power consumption in kWh: Reset Yes / No | No |
| | 32 | ERROR LOG | Displays latest 5 alarms: Reset Yes / No | No |
| | 33 | VERSION | Displays software version | |
| | | EXIT | Return to user menu | |
| | EXIT | | Return to operation | |
| 4 | SERVICE | SERVICE MENUS | | |
| | 41 | NETWORK | Configuring the network | |
| | 411 | ADD DEVICE | Add a device to the network (e.g. a power unit or signal amplifier) | |
| | 412 | REMOVE DEVICE | Remove a device from the network | |
| | 413 | OPTIONS | Add an option/device to the network | |

| Menu | | Text | Selection | Factory setting | |
|------|----------|------|--------------------|---|----------|
| | | 4131 | ADD EXTRA PANEL | Add an extra panel to the master panel | |
| | | 4132 | REMOVE EXTRA PANEL | Remove an extra panel from the master panel | |
| | | | EXIT | Return to network menu | |
| | 414 | | SIGNAL TEST | Displays signal status | |
| | 415 | | RESET | Deletes all included devices: Yes / No. NB: Also removes the power unit from the network. | No |
| | | | EXIT | Return to service menu | |
| 42 | SETTINGS | | | | |
| | 421 | | SERVICE LANGUAGE | Language shown in user and service menu: English, French, German | English |
| | 422 | | FACTORY SETTINGS | Restore factory settings. NB: Does not remove the power unit from the network. | No |
| | 423 | | MINIMUM SPEED | Level for minimum voltage: 80-120 V. NB: Min. 100 V, if chimney fan is model RS009. | 100 V |
| | 424 | | BOOST SPEED | Level for start-up speed: 40 - 100 % | 100 % |
| | 425 | | TEMPERATURE SENSOR | Activation of temperature sensor On / Off | On |
| | 426 | | CONTROL | DEFAULT | (Locked) |
| | 427 | | ALARM SETPOINT | Setting for raising high-temperature alarm 150-400 °C | 330 °C |
| | | | EXIT | Return to service menu | |
| 43 | TEST | | | | |
| | 431 | | FAN TEST | Test chimney fan (Display of power consumption, speed, etc.) | |
| | | | EXIT | Return to service menu | |
| | | | EXIT | Return to user menu | |

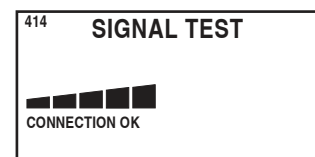
1.11 Signal testing and adding devices

Signal test

To test whether the signal strength is sufficient:

- Go to menu 414
- Press **OK**
- **SIGNAL TEST** is displayed, see illustration →

NB: Search may take up to 10 sec.




Add devices

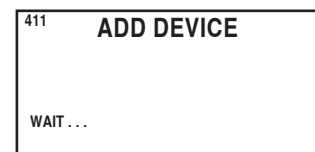
To add a device (power unit, signal amplifier, etc.):

- Switch off mains power for 10 sec. and switch on again
- Go to menu 411
- Press **OK**
- **ADD DEVICE** is displayed, see illustration →

NB: Search may take up to 2 min.

Press **OK**, once the device has been found

Press  4 times to exit configuration




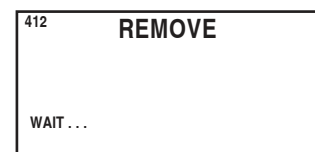
Remove devices

To remove a device (power unit, signal amplifier, etc.):

- Switch of mains power for 10 sec. and switch on again
- Go to menu 412
- Press **OK**
- **REMOVE DEVICE** is displayed, see illustration →

NB: Search may take up to 2 min.

Press  4 times to exit configuration



1.12 Power unit

Functions and display

A) Switch to disconnect power from chimney fan.
(**SERVICE** will be displayed).

B) LED indicators:


- **POWER** lights when power is connected to the power unit
- **CONNECT** lights when searching for a device
- **SERVICE** lights when switch (A) is switched off

C) Button for establishing connection:

- The control panel and power unit can be connected.
- Press button (C) on the power unit
- Go to menu 411 on the control panel

- Press **OK**

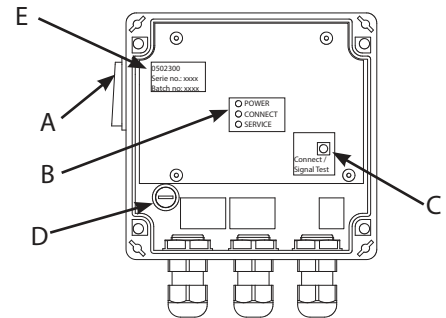
NB: Search may take up to 2 min.

- Press  4 times to exit configuration


D) Fuse:

Protects chimney fan from overload.

E) Control panel serial number



1.13 Troubleshooting

| Observation | Action |
|--|--|
| No light in the control panel display when activated | <ul style="list-style-type: none"> • Check batteries installed correctly • Insert new batteries |
|  shown in the display | <ul style="list-style-type: none"> • Replace batteries |
| 06 LOW BATTERY shown in error log (menu 32) | <ul style="list-style-type: none"> • Batteries have been replaced |
| SERVICE shown in display | <ul style="list-style-type: none"> • Switch on the power unit main switch. (On the chimney). See section 1.12 Power unit on page 11 |
| No draw in chimney but display shows Running | <ul style="list-style-type: none"> • Check the chimney fan blade is rotating • Check the power unit fuse • Check if the chimney is blocked |
| Temperature not shown in the display | <ul style="list-style-type: none"> • Check the sensor is activated in service menu 425 |
| The chimney fan does not start or stop automatically | <ul style="list-style-type: none"> • Check the sensor is activated in service menu 425 • Check the start and stop temperature settings in user menu 11 and 12 • Check the sensor is positioned correctly under the chimney fan • Replace the sensor if necessary |
| ERROR - 01 NO COMMUNICATION shown in display | <ul style="list-style-type: none"> • Check control panel distance from power unit. (Max. 12 m) • Place the control panel in a better position. (E.g. if structural changes have been made, signal may be impeded). • If signal cannot be achieved, a signal amplifier may be added to the network (accessory) |
| ERROR - 02 SENSOR ERROR shown in display (Error message persists until OK is pressed) | <ul style="list-style-type: none"> • Check wiring connected to power unit • Replace the sensor if necessary |
| ERROR - 03 HIGH TEMPERATURE shown in display and it beeps 5 times. (Display remains lit and error message persists until OK is pressed) | <ul style="list-style-type: none"> • Chimney temperature too high Limit combustion • Check temperature setting in service menu 427 |
| ERROR - 04 POWER FAILURE shown in display and it beeps. (Display remains lit and error message persists until OK is pressed) | <ul style="list-style-type: none"> • Power supply to the power unit is disrupted • Limit combustion |

| Observation | Action |
|--|---|
| ERROR - 05 NO RESPONSE shown in display | <ul style="list-style-type: none"> No device has been added to the control panel See section 1.11 Signal testing and adding devices on page 10 |


NB: Alarm messages disappear when the fault is rectified.

1.14 Technical data

| | Control panel | Power unit | Temperature sensor |
|-----------------------------|----------------|----------------------|---|
| Dimensions mm H x W x D | 100 x 130 x 34 | 122 x 120 x 55 | |
| Voltage | | 230 V ± 10 % / 50 Hz | |
| Ingress protection | IP20 | IP64 | |
| Material | ABS | ABS | Glass / Stainless steel |
| Ambient temperature | 0 °C to 40 °C | -30 °C to 60 °C | Sensor element: -50 °C to 450 °C Cable: -50 °C to 125 °C |
| Batteries | 4 AA (LR6) | | |
| Battery lifetime | Approx. 1 year | | |
| Fuse | | T 2,0 A | |
| Current out | | 2 A | |
| Power Consumption (standby) | | 1 W | |
| Type | | | PT 1000 |



2. EU - Conformity declaration

| | |
|---|---|
| DK: EU-Overensstemmelseserklæring GB: Declaration of Conformity DE: EU-Konformitätserklärung FR: Déclaration de conformité de l'Union Européenne NO: EU-Samsvarserklæring | NL: EU-Conformiteits verklaring SE: EU-Överensstämmedeklaration FI: EU-Vaatimustenmukaisuusvakuutus IS: ESS-Samræmisstaðfesting IT: Dichiarazione di Conformità Unione Europea PL: Deklaracja zgodności WE |
| exodraft a/s C.F. Tietgens Boulevard 41 DK-5220 Odense SØ | |
| -erklærer på eget ansvar, at følgende produkter: -hereby declares that the following products: -erklärt hierdurch auf eigene Verantwortung, daß folgende Produkte: -déclare, sous sa propre responsabilité, que les produits suivants: -erklærer på eget ansvar at følgende produkter: | -veklaart dat onderstaande producten: -deklarerar på eget ansvar, att följande produkter: -vastaa siltä, että seuraava tuote: -Staðfesti à eigin àbyrgð, að eftirfarandi vörur: -dichiara con la presente che i seguenti prodotti: -niniejszym oświadczam, że następujące produkty: |
| EW41 | |
| -som er omfattet af denne erklæring, er i overensstemmelse med følgende standarder: -were manufactured in conformity with the provisions of the following standards: -die von dieser Erklärung umfaßt sind, den folgenden Normen: -auxquels s'applique cette déclaration sont en conformité avec les normes ci-contre: -som er omfattet av denne erklæring, er i samsvar med følgende standarder: | -zijn vervaardigd in overeenstemming met de voorschriften uit de hieronder genoemde normen en standaards: -som omfattas av denna deklaration, överensstämmer m ota tämä selvitys koskee, on seuraavien standardien mukainen: -sem eru meðtalin i staðfestingu Pessari, eru i fullu samræmi við eftirtalda staðla: -sono stati fabbricati in conformità con le norme degli standard seguenti: -zostały wyprodukowane w zgodzie z postanowieniami następujących norm: |
| EN 60335-1, EN60335-2-102, EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 301489-1, EN 301489-3, EN 300220-1 | |
| -i.h.t bestemmelser i direktiv: -in accordance with -entsprechen gemäß den Bestimmungen der folgenden Richtlinien: -suivant les dispositions prévues aux directives: -i.h.t bestemmelser i direktiv: | -en voldoen aan de volgende richtlijnen: -enligt bestämmelserna i följande direktiv: -seuraavien direktiivien määräysten mukaan: -med tilvisun til ákvarðana eftirlits: -in conformità con le direttive: -zgodnie z |
| -Lavspændingsdirektiv: -the Low Voltage Directive: -Niederspannungsrichtlinie: -Directive Basse Tension: -Lavspenningsdirektivet: | -de laagspanningsrichtlijn: -Lågspänningsdirektivet: -Pienjännitedirektiivi: -Smáspennueftirlitið: -Direttiva Basso Voltaggio: -Dyrektywą niskonapięciową: |
| 2006/95/EC | |
| -EMC-direktivet: -and the EMC Directive: -EMV-Richtlinie: -Directive Compatibilité Electromagnétique: -EMC-direktivet: | -en de EMC richtlijn: -EMC-direktivet: -EMC-direktiivi: -EMC-efirlitið: -Direttiva Compatibilità Elettromagnetica: -i Dyrektywą EMC |
| 2004/108/EC | |
| Odense, 01.03.2011 -Adm. direktør -Managing Director Jørgen Andersen  | -Algemeen directeur -Geschäftsführender Direktor -Président Directeur Général -Verkställande direktör -Toimitusjohtaja -Frankvemdastjori -Direttore Generale -Dyrektor generalny |



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