Rutland™
Electric Fencing

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Installation & User Guide

Fence Watch. Electric Fence Monitor

Quick Start Guide. (English)

Follow these steps to get your Fence Monitor working:

1) *Make sure your 2G SIM card is registered with the phone network.*

2) *Insert the SIM card into the Fence Monitor.*

3) *Turn on the Monitor, place in the sun and wait for the status light to flash green (allow up to 45 minutes for the internal emergency battery to charge)*

4) *Once the SIM is activated, create a new contact in your mobile phone for the Fence Monitor mobile phone number.*

5) *Text the word REG to the Fence Monitor. Wait for a response.*

6) *To test the unit, wait 5 minutes then turn off the fence energiser. An SMS (Text) warning message should be issued by the Fence Monitor.*

To register your warranty go to: **www.wsregisteraproduct.net**

Schnellstartanleitung. (Deutschland)

Befolgen Sie diese Schritte, damit der Fence-Monitor akkurat arbeiten kann

1) Stellen Sie sicher, dass die 2G SIM Karte mit dem Telefonnetz registriert ist.

2) Setzen Sie die SIM Karte in den Fence-Monitor .

3) Schalten Sie den Fence-Monitor ein, stellen sie ihn in die Sonne und warten sie, bis die LED leuchte, grün blickt (erlauben Sie bis zu 45 Minuten das sich der internen Notfall Akku aufladen kann)

4) Sobald die SIM karte aktiviert ist, erstellen Sie einen neuen Kontakt in Ihrem Handy für die Fence Monitor nummer.

5) Schicken Sie eine SMS mit 'REG' an den Fence Monitor und warten sie auf eine Antwort.

6) Um das Gerät zu testen, warten Sie 5 Minuten und schalten Sie das Weidezaungerät aus. Eine SMS Warnmeldung sollte durch den Zaun Monitor abgegeben werden.

Um die vollständige Gebrauchsanweisung herunterladen zuladen gehen sie bitte unter, www.wsregisteraproduct.net/4.html

Guide De Démarrage Rapide. (French)

Suivez ces étapes pour le bon fonctionnement de votre Moniteur de Clôture :

1) Assurez-vous que votre carte SIM 2G est connectée au réseau télé phonique.

2) Insérez la carte SIM dans le Moniteur de Clôture.

3) Allumez le Moniteur, placez-le exposé au soleil et attendez que le voyant de marche clignote vert (prévoir jusqu'à 45 minutes pour le chargement de la batterie de secours)

4) Une fois la carte SIM activée, ajoutez le numéro de téléphone du Moniteur de Clôture à vos contacts dans votre téléphone portable.

5) Envoyez le mot REG par SMS Moniteur de Clôture. Attendre une réponse.

6) Pour tester l'appareil, attendez 5 minutes puis éteindre le poste électrificateur. Un SMS d'avertissement doit être envoyé par le Moniteur de Clôture.

Pour télécharger le mode d'emploi complet, visitez:

www.wsregisteraproduct.net/4.html

Quick Start Guide. (Dutch)

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4) Once the SIM is activated, create a new contact in your mobile phone for the Fence Monitor mobile phone number.

5) Text the word REG to the Fence Monitor. Wait for a response.

6) To test the unit, wait 5 minutes then turn off the fence energiser. An SMS (Text) warning message should be issued by the Fence Monitor.

To download the full manual go to www.wsregisteraproduct.net/4.html

Quick Start Guide. (Spanish)

Follow these steps to get your Fence Monitor working:

1) Make sure your 2G SIM card is registered with the phone network.

2) Insert the SIM card into the Fence Monitor.

3) Turn on the Monitor, place in the sun and wait for the status light to flash green (allow up to 45 minutes for the internal emergency battery to charge)

4) Once the SIM is activated, create a new contact in your mobile phone for the Fence Monitor mobile phone number.

5) Text the word REG to the Fence Monitor. Wait for a response.

6) To test the unit, wait 5 minutes then turn off the fence energiser. An SMS (Text) warning message should be issued by the Fence Monitor.

To download the full manual go to www.wsregisteraproduct.net/4.html

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Quick Start Guide. (Italian)

Follow these steps to get your Fence Monitor working:

1) Make sure your 2G SIM card is registered with the phone network.

2) Insert the SIM card into the Fence Monitor.

3) Turn on the Monitor, place in the sun and wait for the status light to flash green (allow up to 45 minutes for the internal emergency battery to charge)

4) Once the SIM is activated, create a new contact in your mobile phone for the Fence Monitor mobile phone number.

5) Text the word REG to the Fence Monitor. Wait for a response.

6) To test the unit, wait 5 minutes then turn off the fence energiser. An SMS (Text) warning message should be issued by the Fence Monitor.

To download the full manual go to www.wsregisteraproduct.net/4.html

Quick Start Guide. (Swedish)

Follow these steps to get your Fence Monitor working:

1) Make sure your 2G SIM card is registered with the phone network.

2) Insert the SIM card into the Fence Monitor.

3) Turn on the Monitor, place in the sun and wait for the status light to flash green (allow up to 45 minutes for the internal emergency battery to charge)

4) Once the SIM is activated, create a new contact in your mobile phone for the Fence Monitor mobile phone number.

5) Text the word REG to the Fence Monitor. Wait for a response.

6) To test the unit, wait 5 minutes then turn off the fence energiser. An SMS (Text) warning message should be issued by the Fence Monitor.

To download the full manual go to www.wsregisteraproduct.net/4.html

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Quick Start Guide. (Polish)

Follow these steps to get your Fence Monitor working:

1) Make sure your 2G SIM card is registered with the phone network.

2) Insert the SIM card into the Fence Monitor.

3) Turn on the Monitor, place in the sun and wait for the status light to flash green (allow up to 45 minutes for the internal emergency battery to charge)

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To download the full manual go to www.wsregisteraproduct.net/4.html

Monitor Installation

STEP 1: Charge Battery

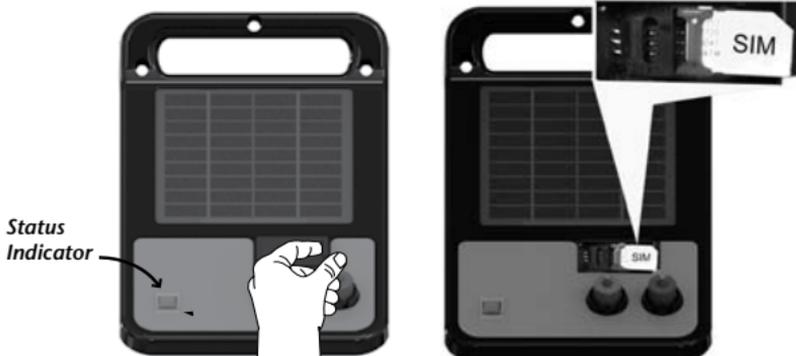> *NOTE: Make sure switch is in the OFF (0) position.*

• *The monitor has the internal battery already connected. However it is a good idea to make sure it is fully charged before use. With monitor in the OFF position, allow the sun to fully charge the battery (3 days) to ensure optimal battery life, or use an optional charger Part No:22-120. (Refer to battery maintenance section)*

Note: Make sure the battery is connected before use.

STEP 2: Insert the SIM card (Must be a 2G card)

• *With monitor in the OFF position, remove the SIM cover and insert the SIM card into the holder. Make sure the cover is replaced correctly.*
• *Ensure the battery is fully charged before use. (Refer to step 1)*
• *Switch the Monitor ON. The three coloured lights in the status window will flash together then stop. It will then flash RED until a connection is made to the phone network. When the connection is made the status window will flash green. This could take 45 minutes.*
• *With the green light flashing text the command REG to register your phone.*
• *If you want to use a PIN number when you register your phone you will need to text the command: REG^xxxx where ^ is a space and xxxx a is a four number PIN of your choice.*
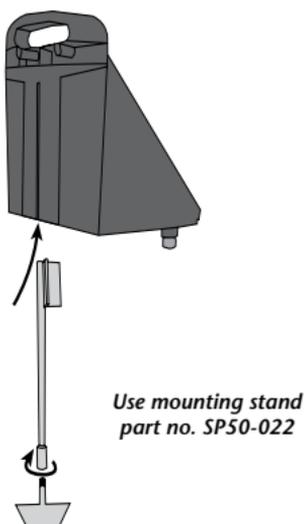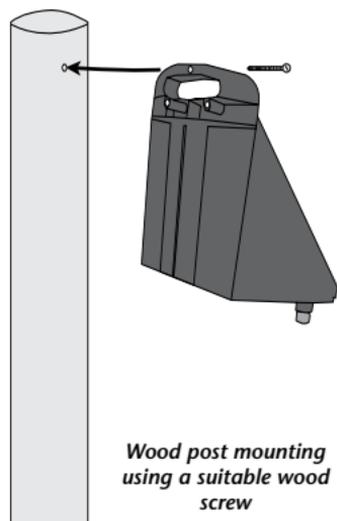

Status Indicator

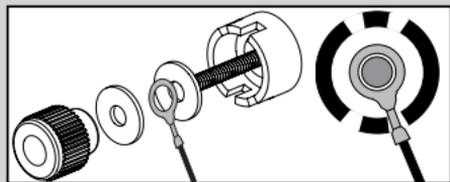| Example Command without PIN	Example Command with PIN	Response without PIN
REG	REG^1234	Solar GSM REG successful

STEP 3: Mounting the Monitor

IMPORTANT: The Monitor must be kept off the ground.

- *Place the Fence Watch Monitor in a location that receives full sunlight throughout the day & facing the noontime sun (due south in the northern hemisphere) Avoid areas that might become shaded.*
- *Fix the Fence Watch Monitor securely to a wooden post or use a mounting stand (Not supplied) part number SP50-022.*
- *Install the Fence Monitor at the furthest point from the energiser.*

Wood post mounting using a suitable wood screw

Use mounting stand part no. SP50-022

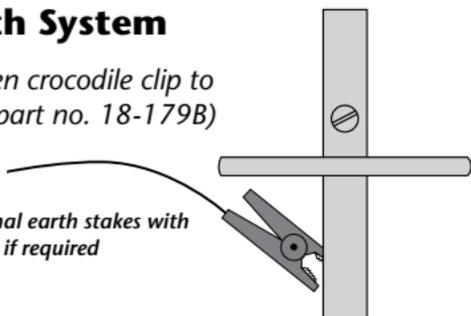## STEP 4: Connect EARTH and FENCE Terminals

Place ring end of crocodile clip over terminal. Connect GREEN/YELLOW wire to EARTH terminal; connect RED wire to FENCE terminal.

STEP 5: Connect Earth System
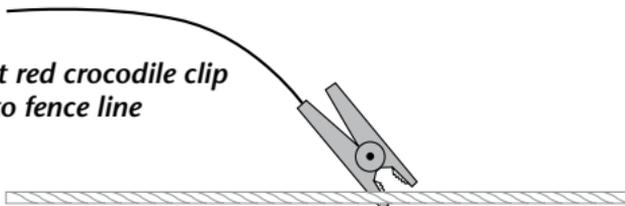
Connect green crocodile clip to earth stake (part no. 18-179B)

NOTE: Connect additional earth stakes with lead-out cable if required

STEP 6: Connect Monitor Cable to Fence Line

Connect red crocodile clip to fence line

Ensure Your Fence System is Sound
- *Check all connection points such as splices, jumpers, and insulators are sound and secure*
- *IMPROPER CONNECTION POINTS WILL AFFECT YOUR ELECTRIC FENCE PERFORMANCE.*
- *Install the Fence Monitor at the furthest point from the energiser.*

Commands
Commands must follow this format. The symbol ^ represents a space:
E.g: Command ^ [PIN] ^ [Command extension]

Command = Three letter command from the list below followed by a space
PIN = Optional. Four digit PIN which must be numeric only (followed by a space if there is a command extension)
Command extension = Extra information related to the command.

Note 1: TEXT commands must be in UPPER CASE / CAPITAL LETTERS
Note 2: If sending REG to a new unit, omit the PIN as no PIN will have been set.

Note 3: The space between the command and the PIN must be used. The symbol ^ represents a space.

List of Monitor Commands

REG	=	*Register the phone number with the Monitor.*
PIN	=	*Sets the security PIN number.*
NOP	=	*Removes the PIN number.*
STA	=	*Status of monitor and fence volts.*
OPV	=	*Changes the low voltage fence warning level.*
STB	=	*Reports the low voltage level setting.*
VER	=	*Reports the version number of the GSM software.*
BLS	=	*Credit balance setting command.*
BLC	=	*Clears the credit balance information.*
SET STA	=	*Set time for a daily report to be sent to your phone.*
TLO	=	*Sets LOW temperature alert.*
UNI FAH	=	*Changes temperature reporting from C ^{o} to F ^{o}.*
UNI CEL	=	*Changes temperature reporting from F ^{o} to C ^{o}.*
RES ALL	=	*Factory reset of Fence Monitor.*

REG Command.

To pair up or register a sending mobile phone with the Fence Monitor, text REG to the phone number of the Fence Monitor SIM card.

Only commands from the registered phone will be acted upon by the Fence Monitor. If REG is sent to the Fence Monitor from a different phone number, this will replace the existing registered phone (see also PIN command for extra security).

To register your phone with a secure PIN, text: REG^xxxx where xxxx is a four digit number.

Note 1: The sending phone should not be anonymous/withheld number.
Note 2: If sending REG for the very first time or if no PIN number has so far been stored, do not enter anything for the PIN number.
Note 3: Only one phone number at a time can be registered.

PIN Command.

Sets or changes the PIN number stored in the Fence Monitor. The PIN prevents unauthorized commands from being acted upon by the Monitor and can prevent an unauthorized user from re-enabling the unit in the event of theft.
When setting the PIN, choose a number combination which is difficult to guess.

If no PIN is currently stored send PIN^xxxx where xxxx is the PIN you want to use. e.g. PIN^1234

If a PIN is stored and you wish to change it, send PIN^xxxx^???? where xxxx is the current PIN and ???? is the new PIN.

The current PIN must match the one already stored.
If a PIN is stored it will be needed with each subsequent command (except STA).
If a PIN is stored, it will be needed if the REG command is sent from a new phone. This prevents control of the Monitor device from being taken over by an unauthorized phone.

Note 1: The PIN is optional but recommended for increased security.
Note 2: If used, the PIN must be 4 numbers.
IMPORTANT: *Keep you PIN number safe and do not disclose it.*

NOP Command.
Removes the PIN number if one has been set.
Text: NOP^xxxx where xxxx is the current PIN.
Note 1: The current PIN number must match the one stored.

STA Command.
Request a status report from the Fence Monitor.
Text: STA

Note 1: A PIN number is not required for this command
Note 2: There is no alternative response to this command (if the command is misspelled there will be no response).

OPV Command.
This command allows the fence low warning threshold to be changed.

Text with PIN:
OPV^xxxx^=2 for 2000V
OPV^xxxx^=3 for 3000V
OPV^xxxx^=4 for 4000V
OPV^xxxx^=5 for 5000V   where xxxx is the current PIN.

Text without PIN:
OPV^=2 for 2000V
OPV^=3 for 3000V
OPV^=4 for 4000V
OPV^=5 for 5000V

Note 1. A space (^) is required between the OPV command and the equals sign.

STB Command.
This command reports the fence warning threshold voltage. Use this command to check what the low warning threshold voltage is set to.
Text: STB^xxxx where xxxx is the current PIN.

VER Command.
This command reports the build date for the software installed in the Fence Monitor.
Text: VER^xxxx where xxxx is the current PIN.

BLS Command.

When using a Pay-As-You-Go SIM you can include in the status messages the remaining credit balance available on the account. This can be achieved when you first activate the SIM. To check the code Insert the sim into a mobile phone and enter the special sequence of characters using the keypad. The response should be the balance.

The Fence Monitor has the ability to perform the same function automatically if the special sequence of characters is first sent to it. Use the BLS command to do this. BLS command is only used for programming the code,

Refer to the SIM providers documentation (supplied with the SIM) or the providers web site for the correct sequence.

As an example (at the time of writing) a Vodafone SIM required the sequence *#1345#. In this case the command would be:

Text: BLS^xxxx^'*#1345#'   where xxxx is the current PIN.

Note 1. Enclose the special sequence of characters in single quotes.
Note 2. The balance request us usually a free service but check with the SIM provider before using this command.
Note 3. The true remaining balance will always be one SMS less than the reported figure.
Note 4. Always top up the credit before it runs out.

BLC Command.
Clears the special sequence of characters used to retrieve the remaining credit for a Pay-As-You-Go SIM.
Use this command if a Pay-As-You-Go SIM is replaced by a contract SIM. Text: BLC^xxxx where xxxx is the current PIN.

SET STA Command.
If you wish the Fence Monitor to send an automatic daily fence status message use the SET STA command.
e.g. Sending the text command: SET^STA^17:00 will make the Fence Monitor send a status message every day at 5:00 pm.
If using a PIN number the following command should be entered:
SET^xxxx^STA^17:00 (Where xxxx is your PIN number)
NB: If correctly sent the Fence Monitor will send a confirmation text message. If wrong an ERROR message will be received.

TLO Command.

Sets the LOW temperature warning message.
e.g. Sending the command: TLO^+10 will send an alert if the temperature drops below 10 ^{o}C
Text: TLO^xxxx^+10 where xxxx is the current PIN.

Note 1: The Fence Monitor temperature range is -15 ^{o}C - + 50 ^{o}C

UNI FAH or CEL Command.

Changes the temperature reporting option to Celsius or Fahrenheit.
e.g. Sending the command: UNI^FAH will change from C ^{o} to F ^{o}
e.g. Sending the command: UNI^CEL will change from F ^{o} to C ^{o}

RES ALL Command.

This command will perform a factory reset returning the Fence Monitor to original factory conditions.
Text: RES^ALL^xxxx where xxxx is the current PIN.

Note 1: Registered phone number and PIN number will be cleared..

Responses.

The Fence Monitor will send a response to indicate the success or failure of the command except in the case of the RES ALL command where no response will be sent (see details in command section below).

Errors.

If a command is not successful one of these errors may be reported in response.
Unregistered*: If a command originates from an unregistered phone or an anonymous phone it will be ignored and no response sent. REG is the only command that may originate from an unregistered phone and be recognized by the Fence Monitor.*

Incorrect PIN "PIN error" A PIN was required but either not entered or entered incorrectly.

<u>Warnings:</u>
(1) Mobile phone network issues can delay sent/received messages.
(2) Isolate the Fence Monitor from the fence before handling it or making connections to it.

<u>Electric Fence Monitoring</u>.

The Fence Monitor will monitor an electric fence which is powered by any popular make of Electric Fence Energiser which gives output pulses between 1 and 5 second intervals.

The Fence Monitor has a maximum measuring capability of 8,500V. If an electric fence has a higher voltage than this it will still be displayed as 8,500V.

If the electric fence fails completely a warning message will be sent saying "Fence Volts: below 500V"

Battery Maintenance

Battery Maintenance
- *A low battery can be recharged by removing the battery and using a 6-volt charger (part no. 22-120).*
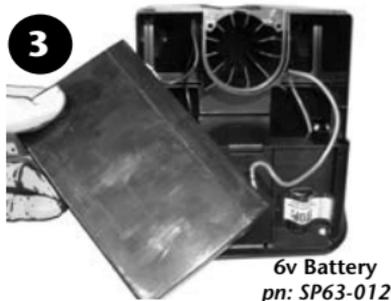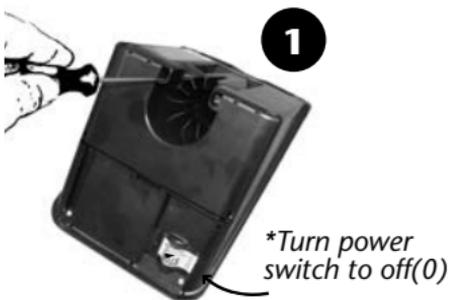- *When not in use, fully charge the battery before storage.*

***Warning: Do not** charge the solar powered electric fence Monitor battery with an automobile battery charger as this will damage the battery.*

The normal life of the internal battery is typically three to four years provided it is properly maintained. A solar fence monitor that is being stored should be placed in the sun for three days every three months to recharge the battery. Any fence monitor in use that doesn't receive sunlight for a period of two weeks should be recharged for three days in sunlight with the monitor turned OFF.

Remove/Replacing the Fence Monitor Battery

NOTE: Battery comes pre-installed.   **Slide cover off*

*Turn power switch to off(0)

1. *Remove the two Torx 5 screws from the back of the Monitor.*
2. *Slide the battery cover off the base.*
3. *Dissconnect the battery and remove.*

6v Battery
pn: SP63-012

GSM status Indicator.

No light : *The Monitor function is not working (possibly because the internal emergency supply is still charging). Wait up to 45 minutes for it to fully charge.*

Red flashing: *The Fence Monitor is initializing. This may take several minutes. If this indicator continues to flash for more than several minutes it may be because there is no mobile phone signal, the mobile phone network is busy or there is a problem with the SIM or Monitor. Try relocating the unit away from obstructions like metal structures or low points in the terrain. If the problem persists try another working SIM or test the SIM in a mobile phone. If necessary return the unit to the point of purchase for repair.*

Green flashing: *The Fence Monitor is ready.*

Rapid green Flashing: *An SMS (text) message is being sent or received.*

Yellow Flashing: *Between 1 and 5 seconds indicates the fence energisers pulsed voltage is present. If the indicator is flashing with 3 consecutive rapid flashes then the internal battery needs attention. Refer to Battery Maintenance section.*
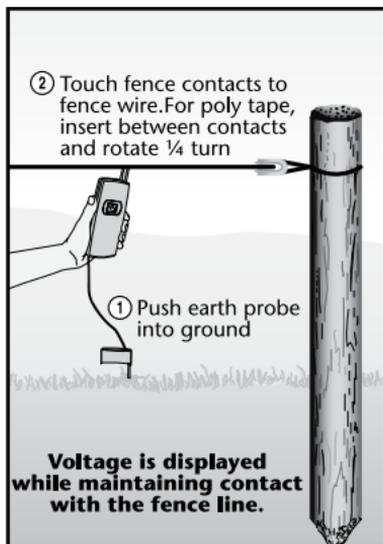
Note: In the case of a contracted SIM the mobile number for your Fence Monitor is supplied to you during the SIM card registration process.
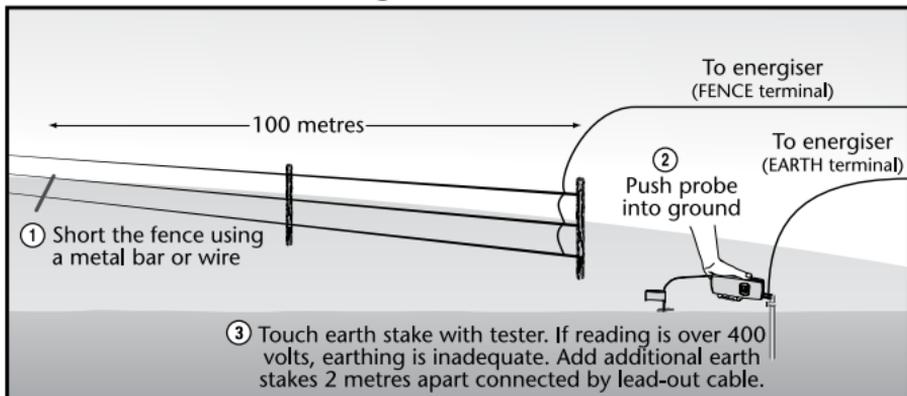
Fence Line Maintenance/Testing

Fence Line Maintenance

- *Regularly test voltage at the furthest point on the fence line from the energiser – we recommend Rutland digital tester 14-172 or 8-light tester 14-173*
- *Routinely check all fence and earth connections to ensure they are sound*
- *For best performance, keep fence line free of vegetation*
- *Keep insulators free from dirt, dust and cobwebs*

How To Test Fence

② Touch fence contacts to fence wire. For poly tape, insert between contacts and rotate ¼ turn

① Push earth probe into ground

Voltage is displayed while maintaining contact with the fence line.

How To Test Earthing

To energiser (FENCE terminal)

←————— 100 metres —————→

To energiser (EARTH terminal)

② Push probe into ground

① Short the fence using a metal bar or wire

③ Touch earth stake with tester. If reading is over 400 volts, earthing is inadequate. Add additional earth stakes 2 metres apart connected by lead-out cable.

Standard Warranty.

This product is warranted for a period of two (2) years (Subject to the warranty terms & conditions) from date of purchase. Please keep your receipt as proof of purchase.

Extended Warranty.

Woodstream Europe Ltd offer an extra one (1) year warranty if you choose to register the product online and within 30 days of purchase. Please go to:

www.wsregisteraproduct.net *and follow the on screen instructions.*

Statement of compliance with EU Directives

We the company Woodstream Europe Ltd declare that this product is in compliance with the essential requirements and other relevant provisions of directives and standards, 2004/108/EC, 92/59EEC, 2006-95-EC, 2001/95/EC. EN60335, EN60335-2-76, EN55014, EN301489, EN60950-1, EN301511.

The technical documentation as required by the Conformity Assessment procedure is kept at the following address:

Company: Woodstream Europe Ltd
Address: 8 Lands End Way
Oakham
Rutland
LE15 6RF. UK

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Warranty Terms and Conditions.

This product is warranted to be free from manufacturing defects for two years from the date of purchase by the end user. Proof of purchase is required for warranty consideration. If no sales receipt is available, the date of manufacture will be used to determine the warranty period.

The warranty does not apply to any defect in the product caused by improper installation, misuse, tampering, neglect, moisture or any other reason not related to defects in material or workmanship of the product.

Warranties are not assignable or transferable. It is for the benefit of and given only to the first consumer purchaser of the product, and shall not be for the benefit of nor given to any subsequent owners or any other user or to any person.

The obligation of Woodstream Europe Ltd. under warranty is limited only to repairing or replacing, at its discretion, any part of the product that is defective and is covered by the terms of this warranty. If any covered defect occurs during the warranty period, return the product to the retailer for rectification who will either undertake the repair or forward the product to ourselves. In no case shall Woodstream Europe Ltd. be liable for incidental, consequential, third party, special or indirect damages of any kind.

LIMITATION OF DAMAGES

The directions for use of this product should be followed care-fully. It is impossible to eliminate all risk inherently associated with use of the product. The effectiveness of Woodstream brands of product may depend on the effectiveness of connections, interruption of power source, accidental shorting of wires, weather conditions, or the manner of use or application, all of which are beyond the control of Woodstream Europe Ltd. or the seller. The buyer shall assume all such risks.

Woodstream Europe Ltd. warrants that this product is fit for the purposes for which it was designed and referred to in the directions for use, subject to the inherent risks referred to above. Rutland Electric Fencing Co. Ltd. makes no other expressed or implied warranty of fitness or merchantability or any other expressed or implied warranty. IN NO CASE SHALL WODSTREAM EUROPE LTD., OR THE SELLER, BE LIABLE FOR CONSEQUENTIAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT. RUTLAND ELECTRIC FENCING CO. LTD. AND THE RETAILER OFFER THIS PRODUCT, AND THE BUYER AND USER ACCEPT IT, SUBJECT TO THE FOREGOING CONDITIONS OF SALE AND WARRANTY WHICH MAY BE VARIED ONLY BY AGREEMENT IN WRITING SIGNED BY AN AUTHORIZED OFFICER OF WOODSTREAM EUROPE LTD.

SAVE THIS INSTALLATION AND USERS MANUAL

WEEE (**W**aste **E**lectrical & **E**lectronic **E**quipment directive) This instruction applies to any product which displays the bin symbol on it or its packaging. If your electrical product is beyond repair and you wish to dispose of it please **DO NOT** dispose of it with your normal household waste. Either return it to your point of purchase (retailer) for collection by Rutland Electric Fencing or take to any authorised recycling centre. Your local council/authority will have information available. This notice refers only to products manufactured or distributed by Rutland Electric Fencing Co. Ltd.

Rutland™
Electric Fencing

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for information on any Rutland product, please contact us at:

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LE15 6RF UK

Web: www.Rutland-Electric-Fencing.co.uk
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Phone: +44 (0) 1572 722558 – UK and EU
+44 (0) 1356 624109 – Scotland