

# LIVESTOCK MANAGEMENT SYSTEMS

## ELECTRIC FENCING EID TAG READERS

# CATTLE PRODDERS AGRICULTURAL SCALES



Quality Australian Made Products

# PRODUCT CATALOGUE 2013/14

# **THUNDERBIRD** Leading the way for AUSTRALIA.

Thunderbird has been supplying quality products to the Australian farmer for over 37 years.

Over this time Thunderbird has become one of Australia's largest and most progressive livestock management electronics manufacturer.

# Thunderbird is the **Australian** company that manufacturers-

- Portable and Permanent Electric Fence systems
- A complete range of agricultural weighing systems and accessories.
- Electronic cattle prodders
- Remote controlled fence energisers





Automatic plastic injection moulders



Thunderbird employs many Australians, manufacturing and distributing a quality range of products utilizing the latest technologies and machinery which lower production costs.

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# **Small Mains & Battery Fence Energisers**



MB250 Powers up to 25km

MB350 Powers up to 35km

### MB65 Powers up to 7.5km MB130 Powers up to 15km

- · Designed to operate from mains or battery power
- Optional solar kit is available
- LCD displays output voltage up to 15kV
- Tough, O-ring sealed enclosure
- SMD technology for maximum reliability
- Mains A.C. adaptor and 12 volt lead supplied
- Quality components 2 years warranty
- Lightning spark gap 6 months lightning warranty
- Vacuum sealed transformer for longer life
- · Low battery warning & pulse timing displayed
- Optional solar kit available

### **2 YEAR WARRANTY**

Model	Stored Energy	Maximum Distance	Voltage @ no load	Voltage @ 500 ohms	Current Drain	Solar Kit Size 12V
MB65	0.7 Joules	7.5km	7.7kV	5.2kV	40mA	5-8 watt
MB130	1.4 Joules	15km	7.7kV	5.8kV	80mA	10 watt

# Medium Mains & Battery Fence Energisers

- Digital LCD displays output voltage up to 15kV
- Mains or battery powered, (A.C. adaptor and D.C lead supplied)
- Optional solar kit is available
- Vacuum sealed transformer for better reliability and longer life
- SMD electronics to provide the most reliable controls
- Quality Australian made product, with 2 years warranty
- Lightning spark gap fitted 6 months warranty against lightning strikes
- Tough, weatherproof O-ring sealed enclosure

#### Low battery voltage and output pulse indicated on LCD display

Model	Stored Energy	Maximum Distance	Voltage @ no load	Voltage @ 500 ohms	Current Drain	Solar Kit Size 12V
MB250	2.7 Joules	25km	8.5kV	5.6kV	160mA	20 watt
MB350	3.7 Joules	35km	8.5kV	5.9kV	210mA	20 watt

# Australian Made

# **Large Mains & Battery Fence Energisers**



### **Remote Ready**

Remote control (optional) Turns energiser on or off, from the fence line.

### **Digital Function Display**

- Output voltage
- Earth condition poor-fair-good
- Amps condition of fence
- Joules energy being used
- Mode standby, diagnostic data

### MB550R Powers up to 50km MB1050R Powers up to 85km MB1750R Powers up to 135km

- **Digital display** of output voltage, earth condition, joules and amps condition of fence all displayed together, no toggling required.
- Mains or battery powered 12 volt lead and A.C adaptor supplied (optional solar kit).
- Remote ready turns unit on or off, from the paddock.
- Auto power boost automatically increases energy levels as fence requires.
- **3 powers levels** to select from, low medium high.
- Earth monitor displays the condition of your earth system.
- 13 pulse speeds to select from 1.2 to 2.4 seconds.
- **Built in alarm** activates internal buzzer and optional strobe or siren/strobe when fence voltage drops. Alarm voltage can be set from 2 to 6kV.
- **Tough enclosure** O-ring sealed, weatherproof, robust ABS enclosure.
- Great back up 2 years warranty, 6 months lightning warranty.
- Solar compatible optional solar kit can be connected to charge battery for remote areas.
- Quality components SMD electronics and vacuum sealed transformer.
- Auto battery save function when battery voltage level drops, system changes output level to low and pulse rate to minimum.

Model	Stored Energy	Maximum Distance	Voltage @ no load	Voltage @ 250 ohms	Current Drain	Solar Kit Size 12V
MB550R	5.1 Joules	50km	7.6kV	5.6kV	205-370mA	40 watt
MB1050R	10.2 Joules	85km	7.9kV	6.6kV	335-730mA	80 watt
MB1750R	17.6 Joules	135km	8.1kV	7.0kV	550-1180mA	120 watt

**Please note** - energiser distances are a guide only. Factors such as proximity of live wire(s) to earth or to other parts of a fence, distance of live wire run underground, thickness of wire and earth condition will affect the effective distance. Thunderbird recommend a minimum distance of 200mm between the live wire(s) and any other conductor, otherwise effective energiser distance is reduced.

# **Small Mains Fence Energisers**



M25 Powers up to 2km M60 Powers up to 7.5km M120 Powers up to 15km

- Safety certified to Australian /New Zealand standards
- OK Pulse light flashes with each fence pulse
- Tough, O-ring sealed, weatherproof case
- SMD technology for ultimate reliability
- Lightning spark gap fitted 6 months lightning warranty
- Vacuum sealed transformer provides a longer life
- 2 years warranty
- Made from quality components
- Large fence terminal knobs, with incorporated stainless

Model	Stored Energy	Maximum Distance	Voltage @ no load	Voltage @ 1000 ohms	Power Usage (Watts)
M25	0.26 Joules	2.5km	8.1kV	3.4kV	2
M60	0.7 Joules	7.5km	8.8kV	5.2kV	3
M120	1.4 Joules	15km	9.5kV	5.9kV	4

# **Medium Mains Fence Energisers**



### M250 Powers up to 25km M350 Powers up to 35km

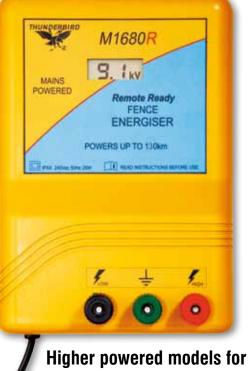
All the features of its smaller brothers - but with more power.

Able to supply more energy for longer fences and deliver higher voltages.

Safety is assured with the certification to the Australian / New Zealand standards.

Model	Stored Energy	Maximum Distance	Voltage @ no load	Voltage @ 500 ohms	Power Usage (Watts)
M250	2.2 Joules	25km	8.4kV	4.9kV	5
M350	3.1 Joules	35km	8.6kV	5.3kV	7

# **Large Mains Fence Energisers**







### **Remote Ready**

Remote control (optional) turns energiser on or off from the fence line.

### Digital Voltage Display

Displays voltage level being delivered to the fence line.

Higher powered models for those long fence lines with harsher environment conditions. M650R M1150R M1680R

Powers up to 60km Powers up to 90km Powers up to 130km

Thunderbird's new large mains energisers incorporate new low impedance technology to keep animals where you want them.

- Digital Output Voltage Display
- Remote Control ready handpiece can switch the energiser on or off from anywhere along the fence
- High and Low output terminals—both can be used at the same time
- Tough O-Ring sealed enclosure, Australian made
- Power to control all types of livestock and feral animals
- Certified to the Australian / New Zealand Standards
- RFI suppression circuitry for minimum electrical interference
- 2 Years warranty plus 6 months lightning warranty
- Quality components SMD electronics and transformer is vacuum sealed

Performance	Stored Joules	Max Fence Distance	Voltage @ no load	Voltage @ 250 ohms	Watt
M650R	5.6 Joules	60km	8.1kV	5.1kV	11
M1150R	10.3 Joules	90km	8.2kV	5.7kV	18
M1680R	14.5 Joules	130km	8.4kV	6.2kV	29

Please note - energiser distances are a guide only. Factors such as proximity of live wire(s) to earth or to other parts of a fence, distance of live wire run underground, thickness of wire and earth condition will affect the effective distance. Thunderbird recommend a minimum distance of 200mm between the live wire(s) and any other conductor, otherwise effective energiser distance is reduced.

### Small Solar Fence Energisers With internal batteries fitted !



### Self Contained Systems includes battery

### S16B 1.5km Solar System S26B 2.5km Solar System

Ideal for small fencing applications. Output leads are supplied. Fully portable - internal battery included. Multi coloured LED, low and high power levels. Slides over steel star post.



Mains battery charger is supplied for poor weather periods.

# Medium Solar Fence Energisers With internal batteries fitted !







Mains battery charger for internal battery included charges overnight during bad weather



### Self Contained Systems includes battery

S 20B 2km Solar Energiser S 40B 5km Solar Energiser S 65B 7.5km Solar Energiser



Ideal for small fencing applications.

Fully portable - internal battery included.

Light, easy and fast to set up. Fence leads and a mains recharger are supplied. Coated electronics, resin sealed transformer and SMD technology combine to form a high quality product.

#### Feature Packed, all models -

- Designed to slide straight over a steel star post for mounting.
- · Convenient strong moulded carry handle for easy portability.
- Super fast to install, large easy to use fence knobs.
- Ideal mould angle to maximise solar collection.
- Pulse light flashes to indicate operation of system.
- Low battery warning light lets you know when to recharge from the mains.
- Fence and earth leads supplied with insulated grips.

Model	Stored Energy	Maximum Distance	Voltage @ no load	Voltage @ 1000 ohms
S16B	0.13 Joules	1.5km	8.0kV	4.5kV
S26B	0.2 Joules	2.5km	7.9kV	5.0kV
S20B	0.13 Joules	2km	6.2kV	3.7kV
S40B	0.4 Joules	5km	7.8kV	5.5kV
S65B	0.7 Joules	7.5km	8.1kV	6.0kV

# **Large Solar Fence Energisers**

S70 10km Solar Energiser - All in one unit
S150 20km Solar Energiser - All in one unit
S250 25km Solar Energiser (MB250 + solar kit)
S350 35km Solar Energiser (MB350 + solar kit)
S550R 50km Solar Energiser (MB550R + solar kit)
S1050R 85km Solar Energiser (MB1050R + solar kit)
S1750R 135km Solar Energiser (MB1750R + solar kit)

Designed for large fence applications where no mains power is available. Regulator and mounting supplied as standard. Thunderbird's large solar systems are designed to be connected to an external 12 volt battery. *Battery not included.* 

Model	Recommended min solar panel size	Recommended min battery size	Systems Voltage	Regulator
S16B	2 watts	5.5 A/H	12V	NO
S26B	2 watts	5.5 A/H	12V	NO
S20B	5 watts	7 A/H	12V	NO
S40B	5 watts	7 A/H	12V	NO
S65B	6 watts	7 A/H	12V	NO
S70	10 watts	60 A/H	12V	NO
S150	12 watts	70 A/H	12V	NO
S250/350	20 watts	80 A/H	12V	YES
S550R Solar	40 watts	100 A/H	12V	YES
S1050R Solar	80 watts	200 A/H	12V	YES
S1750R Solar	120 watts	200 A/H	12V	YES

**Note :** Deep cycle type batteries are recommended. Solar panel sizes may vary due to geographical locations. Larger panels may be required in some areas.

Please note - energiser distances are a guide only. Factors such as proximity of live wire(s) to earth or to other parts of a fence, distance of live wire run underground, thickness of wire and earth condition will affect the effective distance.

Thunderbird recommend a minimum distance of 200mm between the live wire(s) and any other conductor, otherwise effective energiser distance is reduced.

# **Battery Fence Energisers**



**BD20** 

**Strip Grazer** 



Powers up to 2km. Operates from 4 x D cell

batteries or an external 12 volt battery



Ustral Made

Designed for short runs of electric fencing. Portable and low battery use are the big features of this energiser.

Designed to hang on the live fence wire. All wiring comes as standard.

Pulse and low battery lights. Electronics are heavily coated to minimise failure due to moisture and insect damage.

# **Small / Medium Battery Energisers**



### B20 Powers up to 2km B60 Powers up to 7.5km B120 Powers up to 15km

Coated electronics to resist moisture and insects. Modular design. Pulse and low battery lights. This range is reliable and versatile - designed to operate in the harshest conditions.

Model	Distance	Stored Energy	Battery Drain	Solar Option	Low Battery Indication	Voltage @ no load	Voltage @ 1000 ohms
BD20	2km	0.16	15mA	Yes - 2 watt	YES	7.5kV	4.5kV
B20	2km	0.16	15mA	Yes - 2 watt	YES	7.5kV	4.5kV
B60	7.5km	0.7	44mA	Yes - 5-8 watt	YES	8.1kV	5.9kV
B120	15km	1.5	105mA	Yes - 10 watt	YES	8.1kV	6.7kV

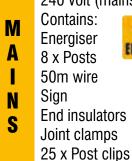
# **Garden Fence Energisers Kits**

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240 volt (mains) Kit Contains: Energiser 8 x Posts 50m wire Sign End insulators Joint clamps



12 volt (battery) Kit B Contains: A Energiser 8 x Posts 50m wire Sign End insulators R Joint clamps 25 x Post clips



Mai

# **Testers**





DIGITAL

#### ALL Thunderbird Testers are AUSTRALIAN MADE

#### **EF 8** Digital Volt Meter

Reads up to 10,000 volts Digital Display Auto on/off function 9 volt battery lasts up to 1 year.

### EF 9



#### Lite Volt Tester

4 lights indicate voltage level 1500, 3000, 4500 & 6000 volts (poor, fair, good or excellent) Requires no battery to operate

# EF 5A

#### Fault Locator

- Displays volts, amps and direction of the fault
- Auto power off function saves battery
- Saves time locating shorts
- Cordless design no need for wires
- Reads up to 15kV and up to 70 amps



#### **EF 4** Fence Flasher

Sealed from moisture and insect damage.

Flashes when fence voltage is over 2,500 volts Can be seen up to 1km away.

# **Earthing Kits**

**EF 126 Earth Clamp** Fits 12mm rod Provides secure electrical connection



**EF 70 Portable Galvanised Earth Stake** Hot dipped galvanized 1000mm in length T bar top to assist removal Termination bolt included

# EF 60

Super Earth Kit Contains bentonite and salt to improve soil conductivity around earth rod. Stainless steel rod for long life

# **Steel Post Insulators**









EF 18S Super strong insulator UV stabilised heavy duty design. Ideal for wire and poly wire.

Made

EF 18C Claw steel post Easy mounting UV stabilised.

EF 18D dual purpose - fits oval and round hole posts, slot for 12mm tape, two pin option, larger shield and fence wire pin.





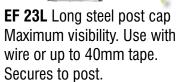




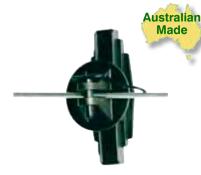
EF 23S White post cap Ideal for wire & cord UV stabilised Will take 40mm tape.

**EF 31B** Porcelain steel post Fire resistant and long lasting.

EF 106 Wide tape insulator. Takes up to 40mm tape.



# **Wood Post Insulators**



EF 19 Pinlock wood post Heavy duty design UV stabilised Shield to prevent arcing



EF 24 Staple insulator Clamps around wire. Galvanised staple.



EF 19C Claw wood post

Ribbed for extra strength.

Anti arc shield

UV stabilised

Australian Made





**EF 17** Screw in wood post Screws straight into soft timber. Slotted for easy wire access

**EF 31A** Porcelain wood post Long lasting and robust



EF 151 Wide tape wood post up to 40mm tape



EF 7 30 metres insultube 5mm I.D - 9mm 0.D.

# **End Strain Insulators**

Australian Made



**EF 25** Porcelain end strainer Strong and long lasting Fire resistant material. **EF 16W** Super end strainer Tough UV stabilised material. Ideal for long fence strains.

**EF 16** Medium end strainer Extra long leakage path. Designed for short strains.

Australian Made

> **EF 26** Porcelain reel Ideal for corner strains Large 41mm diameter.

Note: Wire should not be excessively strained when using 16

#### **Standoff Brackets Upgrading Existing Fences.** EF 31 Porcelain 300mm EF 29 Pinlock 300mm EF 17L 200mm screw in EF 50 300mm fibreglass Spring steel wire & C clip Spring steel wire. wood post offset offset and spring clip Fits to pre-strained wire Extra long life—robust Australian Australian Made Made Australian Made EF 27 Polytube 300mm EF 28S Steel post 300mm plastic EF 22 Steel post 150mm plastic offset Can be installed to pre-strained wire clamps around steel Y post. Ideal for hot tape Plastic tube insulator. Very safe to use with horses. Fits to both sides of steel post. Australian Made EF 83D Single 150mm EF 84D Single 250mm **HOT TAIL Offset Insulators** EF 85D Double 250mm (500mm overall) EF 351 Single 200mm Dual purpose, fits oval and round hole posts. EF 361 Double 200mm Multiriggers are designed to mount to steel or wood Steel pigtail. posts. Comes with coach screw, bolt and nyloc nut.

Wooden post drive in offsets EF-340 150mm drive in pigtail offsets EF-341 270mm drive in pigtail offsets

**Thunderbird - Proudly Australian** 

# **Gate Kits**



**EF 32S** Gate handle Galvanised spring and hook. Large shield to prevent shock.



**EF 32B** Compression handle. Super strong compression spring. Compression configuration ensures spring won't stretch.

Australian Made

> **EF 32A** Plastic hook grip Completely insulated

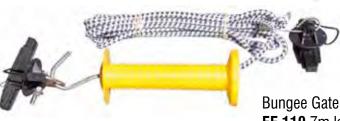


**EF 46** Tape gate - up to 5 metre gateways Includes adjustable buckles, 3 way anchor, handle and insulators.



Australian Made

**EF 34C** Spring gate Includes large galvanised spring, 3 way anchor, handle and insulators Up to 5 metre gateways



Bungee Gate EF 110 7m kit EF 110L 11m kit



**EF 34B** 3 way gate anchor

# **Wire Joiners & Strainers**



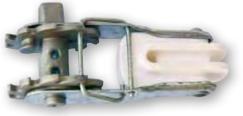
**EF 13S** Wire joint clamp Heavy duty, strong design Galvanised finish, excellent electrical joint



**EF 34** Plain ratchet strainer Rust resistant galvanised frame Clip lock design



**EF 13** Wire joint clamp Split bolt type Takes up to 2.5mm wire



**EF 33** Poly ratchet strainer Rust resistant galvanised frame and large insulator



**EF 13C** Claw wire joint clamp Reversible clamp type



**EF 33A** Porcelain ratchet strainer Rust resistant galvanised frame Long life porcelain insulator

# **Underground Cable**



Thunderbird's underground cable is double insulated for premium insulation. It is manufactured from high quality materials with a galvanised wire core.

Use as a lead out from shed to fence, under gateways, general wire connections and earth stake wires.

EF 11E 25m x 1.6mm underground cable EF 11 50m x 1.6mm underground cable EF 11F 25m x 2.5mm underground cable EF 11A 50m x 2.5mm underground cable EF 11B 100m x 2.5mm underground cable EF 11D 200m x 2.5mm underground cable



# **Hot Tape & Poly Wire**



#### **Poly Wire**

**EF 40E0** - 200m orange **EF 40EW -** 200m white **EF 40D0** - 500m orange **EF 40DW** - 500m white

#### Hot Tape

**EF 40B0** - 200m orange **EF 40BW** - 200m white **EF 40C0** - 400m orange **EF 40CW** - 400m white **EF 41** 100m x 40mm wide The Poly Wire range uses 6 stainless steel wires, and is ideal for short distances.

Designed for short distances Hot Tape is 12mm wide, with 5 stainless steel wires.

Highly visible woven design.

#### **Ultra Conductive products**

EF 48– 200m Thundertape EF 48A– 400m Thundertape EF 47 - 200m Thunderbraid EF 47A– 400m Thunderbraid EF 52– 200m Thundercord EF 52A– 400m Thundercord EF 53– 200m Thunderrope The range of Thunder poly tapes, cords, braids and ropes feature a combination of tinned copper and stainless steel.

They have superior conductivity and strength resulting in better power transfer and longer life.

# **Hot Tape & Poly Wire Specifications**

### THUNDERBIRD POLY - Tapes, Wires and Braids Performance Chart

Product	Item #	Length	Colour	Dia / Width	Volts at start of fence	Volts at 500m	Volts at 1km	Type of conductors
Poly tapes				Width				
Thundertape	48	200m	white / black	12mm	8,000	6,400	5,300	Cu + ss
Thundertape	48A	400m	white / black	12mm	8,000	6,400	5,300	Cu + ss
Poly tape	40BW	200m	white	12mm	8,000	890	470	SS
Poly tape	40CW	400m	white	12mm	8,000	890	470	SS
Poly tape	40B0	200m	orange	12mm	8,000	890	470	SS
Poly tape	40C0	400m	orange	12mm	8,000	890	470	SS
Poly wires/co	ords				D	iameter		
Thundercord	52	200m	white / black	3.5mm	8,000	6,960	6,200	Cu + ss
Thundercord	52A	400m	white / black	3.5mm	8,000	6,960	6,200	Cu + ss
Poly wire	40EW	200m	white	2.5mm	8,000	1,140	600	SS
Poly wire	40DW	500m	white	2.5mm	8,000	1,140	600	SS
Poly wire	40E0	200m	orange	2.5mm	8,000	1,140	600	SS
Poly wire	40D0	500m	orange	2.5mm	8,000	1,140	600	SS
Poly braids								
Thunderbraid	47	200m	white / black	3.5mm	8,000	6,750	5,800	Cu + ss
Thunderbraid	47A	400m	white / black	3.5mm	8,000	6,750	5,800	Cu + ss
Poly ropes								
Thunderrope	53	200m	white / black	6mm	8,000	6,960	6,200	Cu + ss

*Note -* The Thunder range of poly products use a combination of stainless steel (for strength and durability) and tinned copper wire (for superior conductivity), providing a longer lasting and better performing product.

Results may vary depending on conditions and many other factors, figures are with a 500 ohms resistance to earth to represent an animal. All figures are approximate.

Cu = tinned copper wire

ss = stainless steel

Note : Earth resistance is ignored, so performance will be worse if there is any earth resistance.

Specifications are approximate and subject to change without notice.



# **Wind Up Reels**



**EF 36** Up to 200m Polytape / 500m Polywire **EF 36A** Up to 300m Polytape / 800m Polywire Standard reels - insulated bobbins, aluminium frame, light and easy to use.

Strong, simple construction.



**EF 36G** Up to 200m Polytape / 500m Polywire Geared reels - 3 to 1 gear ratio to make winding faster and easier.

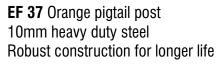
Takes up to 200 metres of poly tape.

Galvanized frame, lightweight but strong design.

# **Tread In Posts**

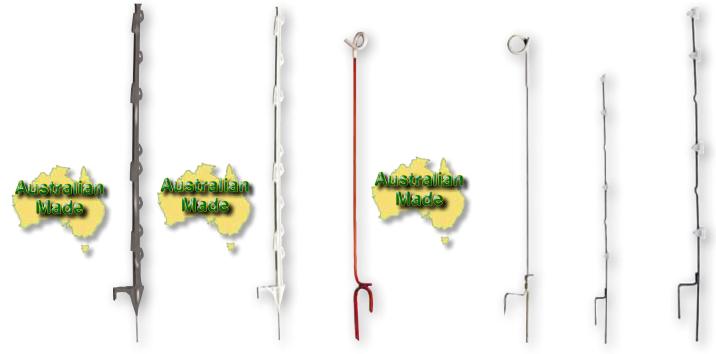
**EF 61** Plastic multi-wire post 1080mm high Heavy duty white polymer Extremely light

**EF 61B** Black plastic multi-wire post 1080mm high



**EF 39** Galvanised pigtail post 6mm spring steel, 1060mm Non breakable steel foot **EF 38** Multi-wire steel galvanised post 1100mm, non breakable steel foot Replaceable insulators, spring steel design

**EF 38H** Multi-wire 1500mm steel galvanised post. Non breakable steel foot Replaceable insulators, spring steel design



# **Fence Accessories**



Jumper leads - EF 59 single



Tape joining buckle EF 103B 40mm EF 104B 13mm



**EF 119** Triple leads with insulated clips



**EF 105** 40mm tape end buckle



**EF 14S** Super cut-out switch



EF 120

EF 122

EF 14 Cut-out switch

Australian



**EF 15** Fence Warning Sign Note:- It is a legal requirement to have warning signs at frequent intervals where fence has public access



**EF** 10K Lightning Diverter Kit Includes porcelain diverter, joint clamps, etc.

Fibreglass Fencing



**EF 49** Flood Isolator Massively reduces power loss when flood contacts the fence. Sealed from insect and water damage. Prevents fence shorting out into floodwater.



#### Ideal option for temporary and permanent fencing.

- EF 55 1000mm x 10mm fibreglass posts
- EF 54 1250mm x 10mm fibreglass posts
- EF 56 1500mm x 10mm fibreglass posts
- EF 57 10mm galvanised spring clip
- EF 51 Nylon driver cap

# le leads d clips

Australian

Made

EF 121

# **General Fence Products**



**No 400** Yellow steel post safety cap. Can be fastened to post. Bright visible colour. UV stabilised plastic.

No 430 Chain Wire Strainers

# **Cattle Prodders**

# **TS200** 4 x C cells



- Operates on 4 x Alkaline C cells supplied.
- 12 months warranty
- Strong flexible shaft
- O-ring sealed end cap, helps resist water entry
- State of the art electronics
- Works with wet or dry animals
- · Button safety clip supplied
- · Lightweight and well balanced
- · Modular design, with replaceable electronic module

# **TS250C** Rechargeable



# Thunderbird's TS250C uses an internal rechargeable battery for added convenience

- · Strong one piece plastic moulding
- · Flexible shafts with inserted moulded brass tips
- Button safety clip supplied
- One year warranty
- Modular design, with replaceable electronic module
- 3 shaft sizes available—

Thunderbird's TS250C prodders have a built in rechargeable battery. System can be charged by an A.C. Adaptor (supplied) or an optional cigarette lighter charger.



#### **Thunderbird - Proudly Australian**

Choice of 3 Shaft sizes for both models -295mm, 545mm and 800mm

# **Ag Scale Indicators**

Thunderbird's range of microcomputer controlled digital indicators incorporate the latest microchips and advanced software, resulting in reliable, high performance, agricultural weighing. Thunderbird's indicators represent excellent value and can help you become a real professional, providing you important information in the yard to make better management decisions.







#### NLIS COMPATIBLE CATTLE ONLY

#### **SS1000** Basic indicator.

Main Features -



Giant LCD display, easy to operate, fast and accurate weighing, 4 weighing modes including 2 livestock modes to capture moving weights. Sealed keypad. Very easy to use. Low power auto off function.

Upgradeable to PS3000. Compatible with all load bars.

#### **PS3000** Advanced statistical/drafting indicator

Main Features -

Giant LCD display, internal rechargeable battery & charger, 4 weighing modes including 2 livestock modes to capture moving weights, RS232 communication port, hold facility. Statistics displayed - min, max, number, total, and average weights - as well as statistics on each weight range. Auto Memory - remembers last weight when turned on. Auto Tally - automatically adds weight to statistics. 5 Way drafting, and many more features.

#### ES6000 Alphanumeric recording Indicator

#### Main Features -

Records - ID (tag), weight, date, file, 24 characters of comments and 12 condition codes on each animal. Operator can download all data stored at a later time to a PC.

50,000 animals can be stored with 10 records per animal.

5 operation modes, daily weight gain, back lit display, 3 x ID fields, auto recording, search menu, graphic display, statistical functions, 2 communication ports, sealed qwerty keypad and many more functions.

EID cross reference - assigns visual tag number against EID number.

Thundersoft animal monitoring and performance software program is supplied free.

Directly connects to a suitable electronic ID reader, storing all data, and eliminating the need for a computer in the field.

Not for trade use.

# **Ag Scale Load Bars**

Thunderbird's Australian built load bar systems are built to handle restless animals and perform in tough agricultural conditions. Portable or permanent applications, when coupled with one of our digital indicators you will find the best value Ag weighing system available.

#### THUNDERBIRD **Easymove Bars** (2 bars, 580mm long) Portable load bars available in 500kg and 2000kg THUNDERBIRD capacities. Lightweight, yet robust with galvanised ACCWEIGHING SYSTEMS construction. Sealed transducers with rodent protection mesh. ustralian 211 Made Made Extender Bars (2 bars, 1000mm long) THE NDERBERD THUNDERD 3000kg permanent load bars ideal for under cattle THUNDERBIRD SA THUNDEREIRD crushes. Heavy Duty design that's made to last. Sealed transducers mounted in solid, thick galvanised housings, fitted with cable hose protection. THUNDERBIRD Quad Bars (4 bars, 580mm long) THUNDERBIRD 4000kg load bars suitable for under weigh ustralia bins and mixers, providing excellent stability. THUNDERBIRD Made THUNDERBIRD AG WEIGHING SYSTEMS **3000kg Suspension cells** (set of 4) Can be used to suspend cattle crushes or large items **100kg Suspension cell (1)** Ideal for weighing fleeces and small weight items in hanging situations.

<b>Recommended Applications</b>	Easymove Bars	Extender Bars	Quad Bars	Suspension 100kg	Suspension
Sheep crates	YES-500kg				
Cattle platforms	YES-2000kg				
Cattle crushes		YES*	YES		YES
Feed bins			YES		YES
Mixers			YES		
Woolpress	YES**	YES*			
Fleeces				YES	

Note : \*preferred option \*\*2000kg only

Not for trade use.

# **Ag Scale Accessories**





#### **TwoPiece Cattle Platform CS 2P2**

Interlocking halves make it easier to transport. Designed to be used with easymove bars.

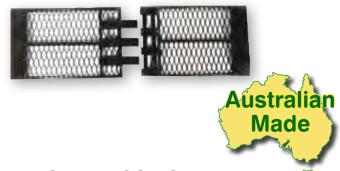
Dim 2000mm x 640mm

#### **Cattle Platform CS 2P**

Strong, robust construction makes for easy weighing in a race, using anti-slip grid mesh. Available painted or in hot dipped galvanised finish.

Dim 2050mm x 640mm

Cattle platform V race and rump bar also available. Used with easymove bars.





#### Sheep Crates CS 2C

Thunderbird's sheep crate provides fast, accurate weighing with its automatic open/close gate system. Rear gate closes behind the animal automatically. After the animal leaves the crate and the operator closes the front gates, rear gates then re-open automatically.

All steel construction. Used with easymove bars. Dim 1450mm long x 580mm wide x 1000mm high.

Pig and goat crates also available, with V sides.

#### 3 way manual draft module CS DRA

Bolts straight onto the front of sheep crate. Allows operator to draft animals 3 different ways.





# **Ag Scale Specifications**

FEATURES	SS1000	PS3000	ES6000
Auto and Manual Tare	YES	YES	YES
4 Weighing Modes	YES	YES	YES
Low Voltage Indication	YES	YES	YES
Fast Stable Software	YES	YES	YES
Drafting		5 WAYS	7 WAYS
On Screen Statistics		YES	YES
Keypad Weight Calibration	YES	YES	YES
Internal Battery and Charger		YES	YES
Auto Tally		YES	YES
Auto Memory		YES	YES
Lock (hold) Screen Display		YES	YES
Sealed Keypad	YES	YES	YES
Point Set Programming Function		YES	YES
Auto Drafting Option		YES	YES
RS232 Computer Connection		YES	YES
External Power Connection	YES	YES	YES
Direct EID (electronic ID) Connection			YES
Low Power Auto Off Function	YES	YES	YES
Group Files			100
ID (tag) Recording			16 DIGITS
Condition / Operator Codes			12 DIGITS
Animal Records			50,000
Back and Forward Keys			YES
Ability to Edit Records			YES
Alpha/Numeric Recording			YES
Deleting Facility			YES
Date Entries			YES
On Screen Prompting Instructions			YES
Various Load Bar Capacities	YES	YES	YES
Previous Weights Displayed			YES
Previous Codes Displayed			YES
2 YEARS Warranty	YES	YES	YES
Total weighing records			500,000

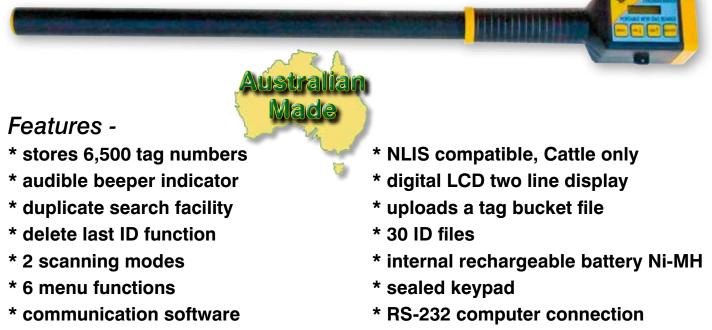
Load Bar Specifications	Easymove Bars	Extender Bars	Quad Bars
Portable use	YES	NO	NO
Permanent use	YES	YES	YES
Gross capacity (kg)	500/2000	3000	4000
2 year warranty	YES	YES	YES
Fine mode	YES	NO	NO
Bolt down plates	YES	YES	YES
Cable protection	YES	YES	YES

Thunderbird - Proudly Australian

# **EID Tag Readers**

### **PR20 Portable Tag Reader**

Thunderbird's PR20 portable RFID tag reader. Suitable for reading NLIS ear tags and bolus, made robust for agricultural conditions.



\* Blue tooth connection using serial adaptor (optional)

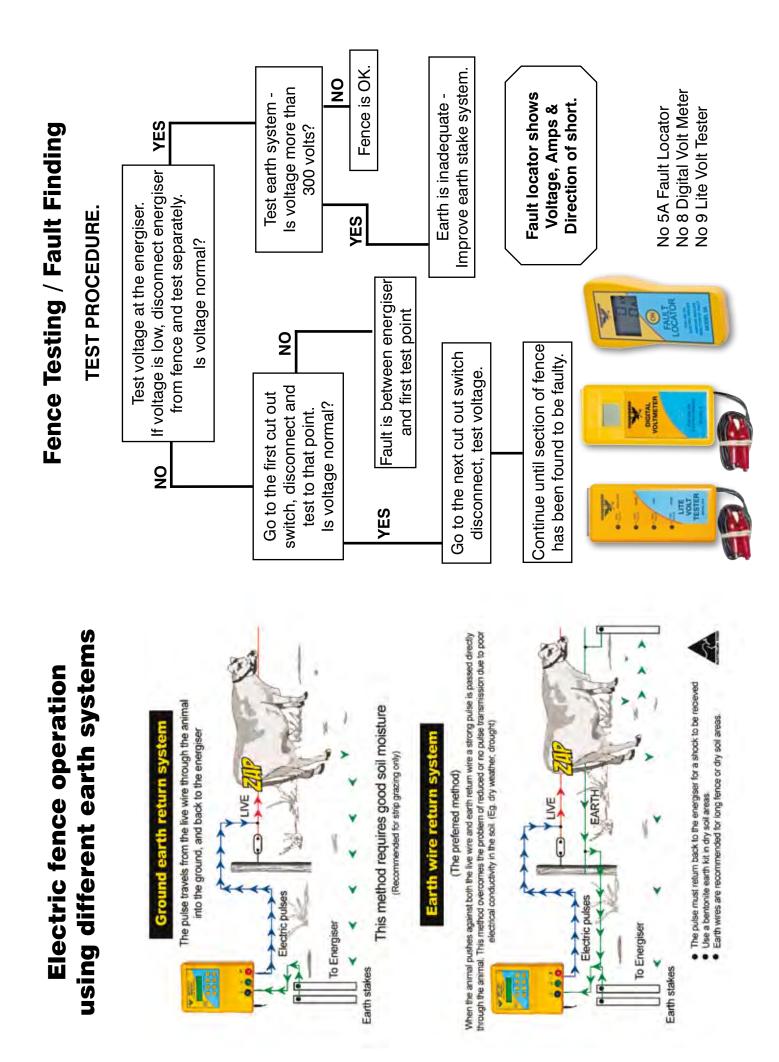
Thunderbird's PR20 is supplied complete with a downloading software disk, a 12 volt external power lead, a 5 metre serial cable and a 240 volt mains adaptor to charge the internal battery.

The PR20 has been designed with the rigours of agricultural use in mind. It has a moisture resistant computer port and switch, constructed from robust ABS and fibreglass and has a sealed keypad to avoid moisture or dirt entry.

The new PR20 electronic tag reader stores the IDs in its memory, and the data can be downloaded to a computer at a later time. The PR20 can also be directly connected to scale indicators, transferring the ID data to be stored by the scale.

#### Specifications

Read range - approx 950mm from operators hand, or up	<b>Memory</b> - stores 6500 IDs <b>Dimensions</b> - Length 765mm - Shaft Dia 32mm <b>Weight</b> - 876g		
to 270mm from reader - depending on tag orientation.			
Operating Current - 90-100mA average			
<b>Display</b> - 16 character x 2 line back lit display	Rated - IP44 Transponder Types - 134.2 kHz HDX/FSK		
Internal Battery - Ni-MH 4.8V 2000mAH nominal			
External Supply - 5-12Vdc	<b>Baud rate</b> - 4800, 9600, 19200 & 57600.		
Charge Current - 120mA approx.	Blue tooth - optional NLIS compatibility - can store tag bucket file for all		
Number of files - 30			
Read indication - Audible beeper and ID display	6500 tags and display ID on a match. Software imports tag bucket file and exports NLIS notification file.		
Duplicate search - will not read same tag twice in a row			



ig. Energiser Installation	Most problems with electric fencing are associated with POOR earthing! The live wire is only half the circuit, earthing is just as important.Installing Energisers are supplied with a full set of instructions - please read these instructions before installation.The fence will not be effective if the earth is unsatisfactory.Thunderbird energiser are supplied with a full set of instructions - please read these instructions before installation.The fence will not be effective if the earth is unsatisfactory.Install mains energisers and MB energisers powered from the weather where practical. Install mains energisers do not require covering.An electric fence earth system away from other earth systemsNeedergisers in a dry, well ventilated position out of the reach of children. Use THUNDERBIRD double insulated cable from energiser's terminals to earth system and live wire, and terminate with wire joint clamps. Solar and battery energisers should be installed on the earthing instructions for best results.	Thrund FRIBID       Use FLUND FRIBID         Super Earth Kits in dry soil areas.       Use FLUND FRIBID         Super Earth Kits in dry soil areas.       Use FLUND FRIBID         Super Earth Kits in dry soil areas.       Distribution of the states in the pround. Flace the states 1.5 metres into the galvanised steel or states 1.5 metres apart. Use galvanised steel or states 5 metres apart. Use galvanised steel or states 1.5 metres into the galvanised steel or states 1.5 metres into the galvanised steel or states 1.5 metres apart. Use galvanised steel or ste
Earthing.	Most problems with with POOR earthing! The live wire is only l important. The fence will not be unsatisfactory.	Drive 3 stakes 1.5 metr the stakes 5 metres ap stainless steel stakes Copper connected to c causing poor contacts. Position in a moist area energiser with double i connections tightly usit Drive additional earth s



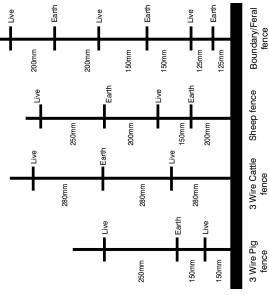
Wire Spacing

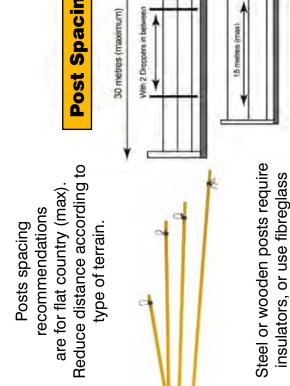
spacings for different Recommended wire animals.

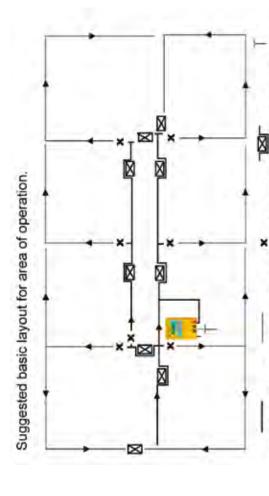
Live

250mm

vary a little in some Requirements may conditions.



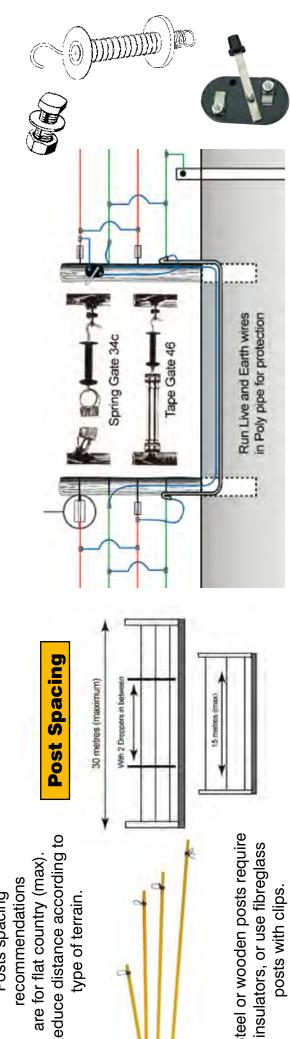


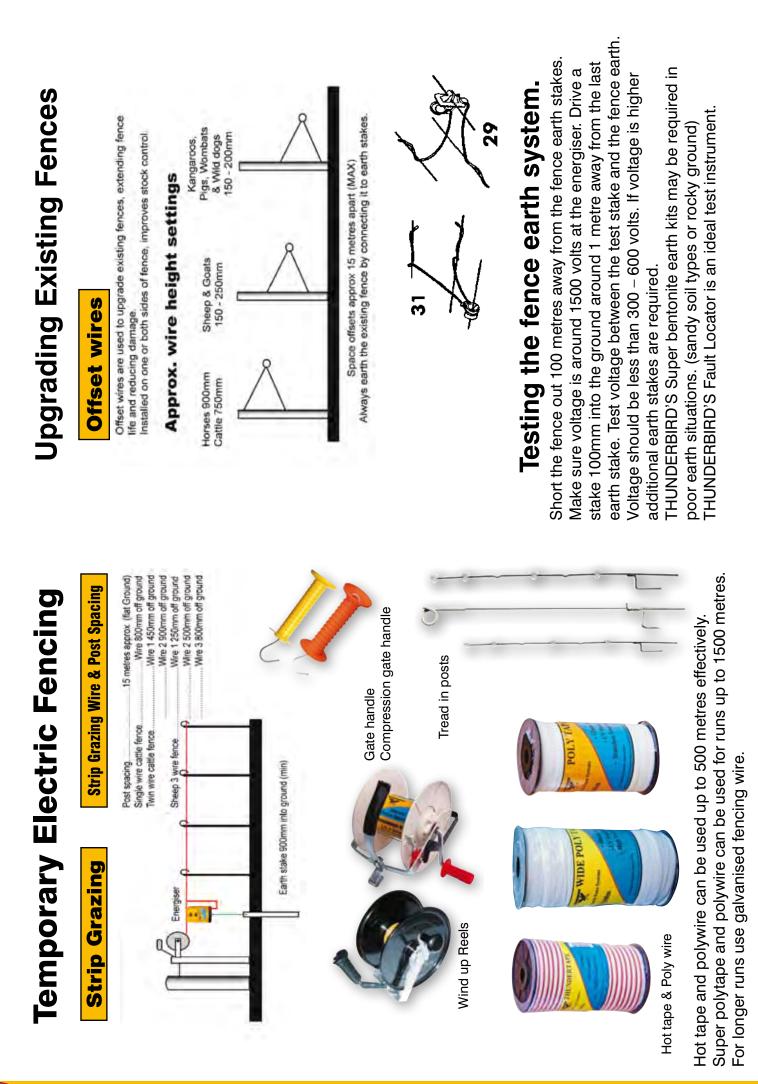


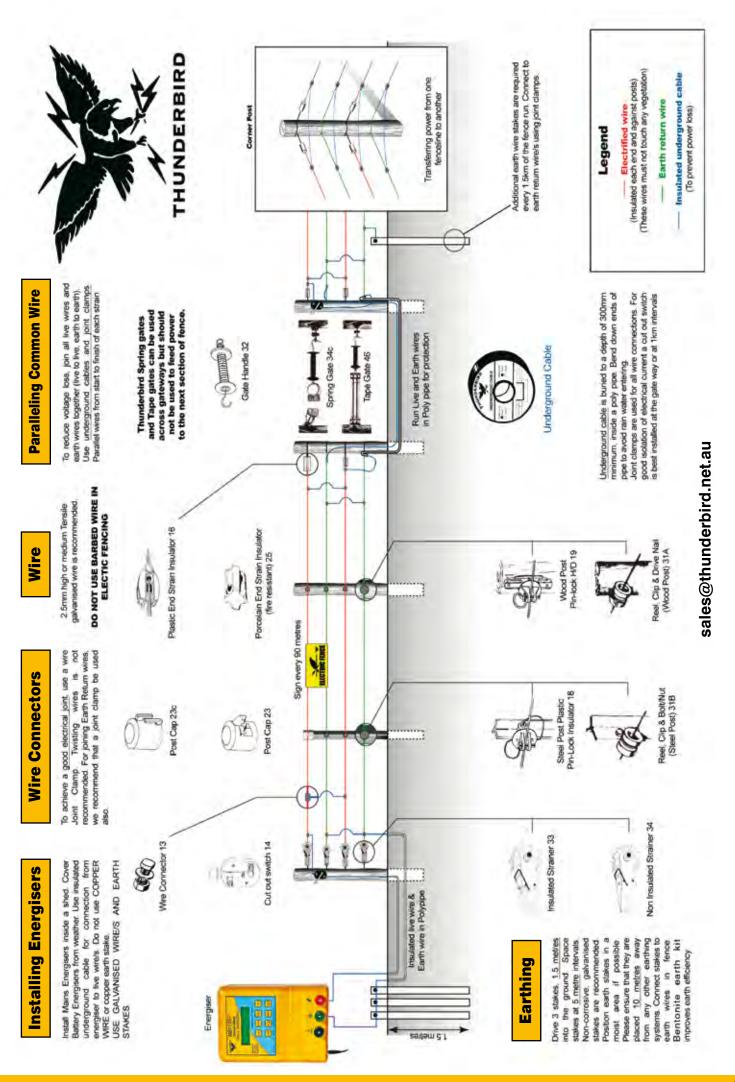
clamps on all connections. Cut out switches can be positioned at gateways to of 300mm inside poly pipe for protection. Bend down poly pipe ends to avoid Jse THUNDERBIRD double insulated underground cable buried to a depth rainwater entering. This is done for both live and earth wires, using joint isolate fence runs.

Insulated underground cable Earth Stake

Leadout feed wire/s Fence Subdivision Cut-out switch









# **THUNDERBIRD** the **REAL** Australians! Australian Designed, Tested and Made.

### The Development Continues for Quality Australian made products

Over the last decade, Thunderbird has developed over 50 new products.

Our Company's commitment to research and development has been the key to our recent success.

Thunderbird, in addition to continually improving existing products in the range, is designing new innovative products for the man on the land.

#### **THUNDERBIRD** is Australia's leading Ag livestock management manufacturer. We are the only company in Australia that manufactures -

- · Electric fence geared and non geared wind up reels
- Plastic moulded tread-in multi lug posts
- Dedicated range of low cost mains/battery fence energisers
- · Remote controlled fence energisers with keypad and display
- Electronic stock prodder range
- Dedicated complete agricultural weighing systems, NLIS compatible
- Underground electric fence cable
- Complete NLIS EID and AG Scale package
- Dedicated angle moulded enclosure for solar fence energisers

#### Look for the Australian made symbol inside and secure Australian jobs



### NOTES


All specifications are subject to change without notice, as our company is committed to product improvements.

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