PRODUCT OVERVIEW LODAR REMOTES



TRANSMITTERS





Standard Functions: 1 / 2 / 4 / 6

Mini

Functions:2 / 4



Functions: 2 / 4 / 6 / 10 / 16 / 20





Functions: 40

RECEIVERS DC



Mini FETS Functions:2



Standard FETS Functions:1 / 2* / 4 / 6



Standard Relays Functions:2 / 4*



Deep FETS Functions:10 / 16 / 20*



Functions:2* / 4* / 6*

RECEIVER AC





Standard Relays Functions: 2* / 4*



QUEENSLAND:

64 Success Street, Acacia Ridge (07) 3216 7855

VICTORIA:

39 Tullamarine Park Rd, Tullamarine (03) 8336 1346 info@gfr.net.au www.gfrindustries.com.au

TRANSMITTERS LODAR REMOTES



Choosing the right Transmitter is the first step to finding your Lodar system. With up to 20 functions available (40 functions with Shift), Lodar can satisfy operators across a broad range of industries.

FEATURES COMMON TO ALL TRANSMITTERS
RED BUTTON – turns Receiver off
GREEN BUTTON – turns Receiver on

LOW BATTERY – fast flashing LED EASY CODING – over 16 million codes for safety



Mini

- Suitable for light industrial applications.
- IP 67 waterproof rating.
- Fits nicely in the palm of your hand.
- Facia Customisation Available.

SPECIFICATIONS

- SWITCH • Rubber membrane with carbon contact •2 x AAA alkaline manganese (3 Volts) BATTERY CURRENT DRAW • Quiescent: 4 micro amps **Operating: 20 milliamps** PROTECTION • Reverse Polarity: Protected IP Rating: 67 Registration Codes: Over 16 million PERFORMANCE • Temp. Range: -20°C to + 55°C (-4°F to + 131°F) • Range: 45 m (150 ft.) from the Receiver, when driving a momentary output, without signal drop out. 150 m (500 ft.) option available. • Transmitted Power:
 - 1 mW Typical



Standard

- Established in the Lodar® range for over 10 years.
- IP 55 water resistant rating.
- Large membrane buttons on a wipe clean surface.
- Enclosed with PVC LoCover, fits firmly in the hand.
- Function Button Customisation.

SPECIFICATIONS

- Tactile Dome
- 1xPP9 alkaline manganese (9 Volts)
- Quiescent: 4 micro amps Operating:20 milliamps
- Reverse Polarity: Protected
- IP Rating: 55
- Registration Codes: Over 16 million
- Temp. Range: -20°C to + 55°C (-4°F to + 131°F)
- Range: 60 m (200 ft.) from the Receiver, when driving a momentary output, without signal drop out. 300 m (1,000 ft.) option available.
- **Transmitted Power:** 1 mW Typical



IP

- A robust Transmitter with IP67 waterproof rating.
- Large membrane buttons on a wipe clean surface.
- Function Button Customisation.

SPECIFICATIONS

- Tactile Dome
- 4 x AAA alkaline manganese (6 Volts)
- Quiescent: 15 micro amps
- Operating: 24 milliamps
- Reverse Polarity: Protected
- IP Rating: 67
- Registration Codes: Over 16 million
- Temp. Range: -20°C to + 55°C $(-4^{\circ}F \text{ to } + 131^{\circ}F)$
- `Range: 60 m (200 ft.) from the Receiver, when driving a momentary output, without signal drop out. 300 m (1,000 ft.) option available.

• Transmitted Power: 1 mW Typical



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TRANSMITTERS LODAR REMOTES





NEW! One Function Transmitter

LODAR now offers a One Function wireless option. Turn the power ON/OFF to generators, water pumps, lights etc. The special One Function Receiver has two outputs, one momentary and one latching – take your pick.



NEW! Stainless Transmitter

The Stainless Steel faceplate, with vandal proof security buttons, is designed to work in the harshest of environments. Ideal where the function buttons are in use 24/7. This 6 function IP enclosure can either be used for 2 to 4 function operations or modified with "SHIFT" to give up to 12 functions. All with the relevant Receiver.



21-40 Function with SHIFT Option

The "SHIFT" option on this robust Transmitter allows a mode change by simply depressing the Green Restart Button. Different LED's on the Transmitter indicate the relevant mode, which will be matched with the required Receiver(s). Fewer functions can also be operated this way when smaller Transmitters with relevant Receivers. For example, if you feel a single 20 function Transmitter is too large then you can chose to have a 10 function Transmitter in mode format – 2 x10 functions.



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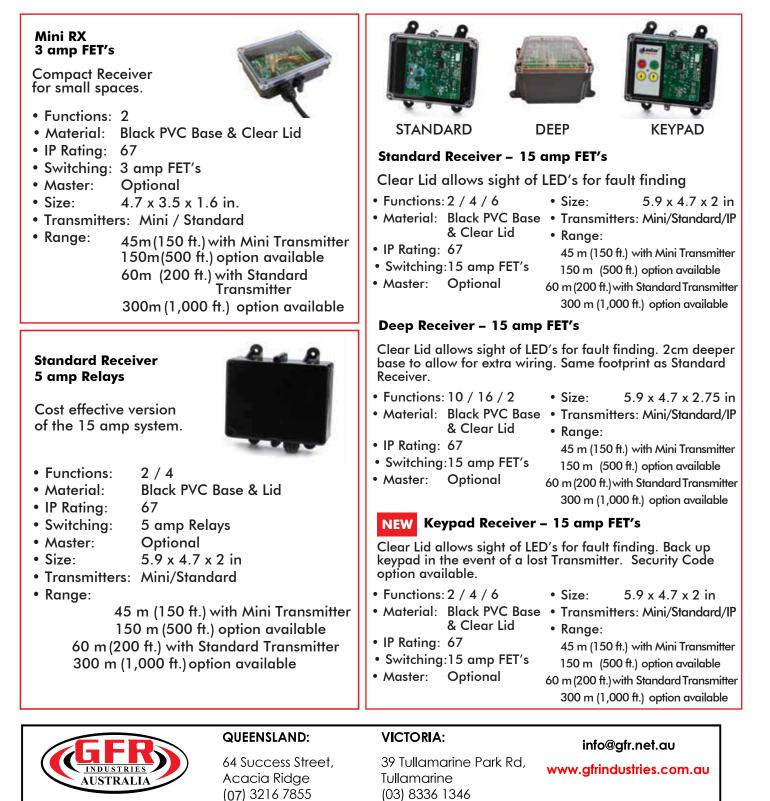
RECEIVERS LODAR REMOTES



MASTER OUTPUT - WHAT IS THAT?

Most models are fitted with a Master Output, giving an extra independent control from the Transmitter. Examples of use:

• An electro hydraulic power pack • A clutch pump • A dump valve The Master Output is factory configured in a continuous all the time after pressing the Start button on the Transmitter. This Master Output can also be configured in a parallel mode, where it will turn on/off as the function buttons are operated (refer to Instructions). The Master Output can also be removed from operation on a function by function basis, if required. It is totally felxible in its application.



CUSTOMISING LODAR REMOTES

TRANSMITTER CUSTOMISING

Since Lodar is used in many different applications, our Transmitters can be customised to fit your needs. The following customisations are possible:





Learn how to choose your legends by watching the video! www.youtube.com/lodarsales



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CUSTOMISING LODAR REMOTES

RECEIVER CUSTOMISING

All Lodar is set up in the factory with momentary functions, horizontal interlocks and a 30 minute automatic timeout. Lodar's sophisticated software can be modified for a wide variety of applications providing endless possibilities.

TIMED LIMITS F

Using software modifications, Receivers can be set to operate with a variety of timings. An example might a be where a delay is required for a function to activate **AFTER** the Transmitter function button has been pressed.

REMOVE THE MASTER OUTPUT

You may wish to have the Master operational on certain functions and not on others – modified software can achieve this.





Add switches to the side of the Receiver to cut off power and control the system.

LATCHING

Where a function is being operated for an extended period it may be wise to consider a latching option – once pressed, the button will stay on until it is pressed again to turn it off. Latching is great for long winch lines or cycle times but you need to consider safety – you must be able to turn it off!

REMOVE INTERLOCKING

All Lodar®units are factory set with horizontal interlocking, that is to say you cannot activate an output on function two when function one is operational. A bad idea for a motor – it would not like to go both ways at the same time! A software change would allow either the removal of any interlocks, the establishment of vertical as opposed to horizontal interlocks or, in fact, any sequences that you might want.



+ WIRING HARNESS

Lodar[®] 2 / 4 / 6 function systems come with a 10 foot wiring harness. We can make up any harness you wish, from your own wiring diagrams, to speed up installation in a production line. The use of SureSeal connections, shown above, can also provide a waterproof connection in the harness.



+ CONTROL MULTIPLE RECEIVER

Lodar[®] can be programmed to control multiple Receivers from the same Transmitter (e.g. to open a number of doors simultaneously). Alternatively, there may be a number of Receivers required in different locations one Transmitter can be set up to operate each of them individually.



+ POTTING / RUGGEDISATION

Rough conditions?Potting protects the Receiver PCB board from extreme vibration. A silicone gel covers all the electronic components.



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ORDERING LODAR REMOTES



HOW DO I KNOW WHAT LODAR PART NUMBER TO ORDER?

There are dozens of Lodar systems available and the part numbers can be overwhelming. By answering the following questions, you will help your distributor pinpoint that fits your needs.



1. RANGE

What distance do you want to work to? 60 m (200 ft.) 300 m (1,000 ft.)

2. FUNCTIONS

How many functions do you want? For example, a winch will have 2 functions (IN/OUT)

2	6	🔲 10	14	🗌 18	20+
4	8	12	16	20	

3. TRANSMITTER

What Transmitter style do you like?

- Mini
 Standard
 Stainless
 IP
 Shift
 A Functions
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 Mini
 2 4 Functions
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 - Waterproof Water Resistant Waterproof Waterproof Waterproof



4. AMPERAGE

What amperage ar	e you switching?	Don't know - then the default is 15 amps.
🔲 3 amps	🔲 5 amps	🔲 15 amps

5. ADDITIONAL QUESTIONS

Here are some additional questions:

- YES NO If you are ordering more than one system will they be working in close proximity to each other?
- YES NO Are you mounting the Receiver in a confined space or in a tool locker, or something similar?
- YES NO Are you going to need an additional function out put, to maybe work a power pack?
- YES NO Is there likely to be extreme vibration?
- YES NO Will any of the functions need to be latching?



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ACTUATOR SYSTEMS LODAR REMOTES

AIR

Why do I need an Actuator System? Why can't I use a normal radio remote control system?

There are many trucks in the market where, historically, the only means of controlling the vehicle functions are by hydraulic valves with lever and they continue to build these vehicles.

Working these functions by a radio remote control is becoming more and more popular. The obvious safety benefits, as well as the flexibility to manage the recovery with just a single operator, are together proving to be a necessity, not just an option. With only hydraulic controls, however, there is nothing to switch; no electrical control at all. The only choice available, for those that want to convert to radio control, is to change to electro-hydraulic valves. This would provide an electrical switching option but at a cost that most operators would not consider.

The Air Actuator System by Lodar will now allow your vehicle to be easily and inexpensively converted to the radio remote control option, by providing electrically operated air valves. These control the Air Actuator. The Actuator itself is fitted above the lever control rod, with one end attached to the rod itself and the other end to the chasis. The air supply is controlled through air valves (see fitting drawing) which, in turn, are switched by the Lodar Radio Remote Transmitter/Receiver system.

Can you have more than one valve operated by this system?

Yes. We offer up to 16 funtions (8 Actuators) for the ultimate vehicle control. Discuss your requirements with your local Distributor.

What if I do not have an air supply on the vehicle?

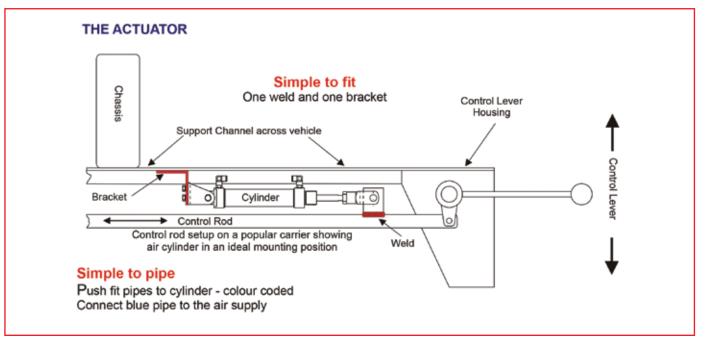
The purchase of a small, inexpensive air compressor will resolve this problem. It is always a good idea, anyway, to have an air supply available.

Can I operate the levers, even though there is an Actuator fitted?

Yes, you can override the Actuator control at any time.

Can I fit this system to any vehicle?

As long as there is a control rod for the Actuator to be fitted to then this system is universal.





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ACCESSORIES LODAR REMOTES



LOCATORS

Lodar offers two style of LoCator housing the Transmitter when it's not in use. Choose between a basic LoCator or one with a buzzer and light, used to warn that the Transmitter is missing from its' holder. Alert settings are chosen on the back of the LoCator and can be customised.



9812 LoCator for Standard & IP Transmitters

9813 LoCator for Standard & IP Transmitters with Buzzer/LED

Learn about our LoCators by watching the video! www.youtube.com/lodarsales

LOCOVERS

If the Transmitters are used in dusty or very dirty environments a LoCover might help prolong the life of the keypad. A lanyard is included. Standard Transmitters are supplied with Part 9801.

9801 Silicone – supplied with all Standard Transmitters
9802 Clear Plastic IP67 - all Standard Transmitters
9804 Fabric/Clear Face - 2-6 Function Standard Transmitters
9805 Fabric/Clear Face - 2-6 Function IP Transmitters
9806 Fabric/Clear Face - 10 Function IP Transmitter

- 9807 Fabric/Clear Face 16 Function IP Transmitter
- 9808 Fabric/Clear Face 20 Function IP Transmitter



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ACCESSORIES LODAR REMOTES



BACK UP SYSTEM

Lodar has a range of hard wired remote controls that connect directly to the Receiver, ideal if the Transmitter is mislaid or damaged. These controls use the same enclosure as the IP Transmitters but have a high quality "curly" cable attached, stretching out from .45m to 4.5m. The cable will not lose its shape if used continuously.

- 96022 Function Wired Remote96044 Function Wired Remote96066 Function Wired Remote
- 9610 10 Function Wired Remote
- 9616 16 Function Wired Remote
- 9620 20 Function Wired Remote

EXTERNAL AERIALS

Lodar performance may be compromised if the Receiver is mounted in a position that causes the reception to be reduced, such as in a toolbox or deep in the chassis. Adding an external aerial maintains full operating range of 60/300 metres (200/1,000 ft.) in these adverse conditions. An external aerial is simply added to the SMA fitting on the PCB. An aerial will NOT increase the stated range.

Please note: you will need to request an SMA connector, if ordering a 2 function in the 90 or 91 series. It does not come as standard and will have to be soldered to the Receiver PCB.

- 9010 SMA Aerial Connector for 90 & 91 Series
- 9860 Aerial mast only
- 9861 Aerial with 1 m (3.3 ft.) of Cable & Aerial Mast
- 9862 Aerial with 1.6 m (5.3 ft.) of Cable & Aerial Mast
- 9863 Aerial with 3 m (10 ft.) of Cable & Aerial Mast
- 9869 Aerial with 9 m (30 ft.) of Cable & Aerial Mast

SOLENOIDS

Lodar has a range of high quality solenoids, to carry loads that are well in excess of the 15 amp relays in the Receivers. Ask your local Distributor for more information.

- 9820 Solenoid 12 V, Motor Isolation (Continuously Rated)
- 9821 Solenoid 24 V, Motor Isolation (Continuously Rated)
- 9822 Solenoid 12 V, DC Motor Forward/Reverse Standard
- 9823 Solenoid 24 V, DC Motor Forward/Reverse Standard
- 9824 Solenoid 12 V, DC Motor Forward/Reverse Heavy Duty
- 9825 Solenoid 24 V, DC Motor Forward/Reverse Heavy Duty
- 9826 Relay 12 V Changeover
- 9827 Relay 24 V Changeover



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