

Remote Controllers

Wireless / Pendant Controllers

Part Number	Voltage	Description
V6PR-4	12v or 24v Compatible	Remote Control Set with Override Pad on Receiver 4 Button Transmitter
V6PR-6		Remote Control Set with Override Pad on Receiver 6 Button Transmitter
V6HC-4		Transmitter - Replacement

*These Wireless Controllers can be programmed at Hydraulics Network to achieve different requirements.
They can be used with 12v or 24v DC power.
Contact us for further detail and application suitability.*



Receiver IP67

Transmitter IP66





Robust / Handy / Safe

SAGA1-V6

A radio remote system developed for Tow Truck / Trailer / Winches / Hydraulic System.
It also applies for Industrial Door / Gate / Barrier control and other industrial fields.

SMART Radio Communication It helps operator monitor the radio signal status with this new RF technology.

Auto Channel Selection (ACS) This feature creates a near non-interference from other systems.

Receiver pushbutton panel (Optional) A pushbutton panel available on receiver for emergency i.e. transmitter lost/damaged.

Remote Pairing It is easy and simple to register a replacement transmitter without any tool required.

PC Software Programmable It allows you to program the function of button, frequency etc. through software.

NC/NO Relay All relays are NC/NO type to meet all application requirements.

Water/Dirt Resistant Robust casing for all weather condition.

Password power-on mode It provides several power-on modes such password for authorized operator.

Pre-assembled receiver cable Easy and quick installation.





Transmitter

6 Functions Buttons with
2 Start Buttons + Stop

Receiver

(with pushbutton Panel)

Receiver

(w/o pushbutton Panel)

Technical Data

Frequency Band	868 MHz/ 915 MHz (Frequency might be varied on different region)
Numbers of available relay	8 Function Relays + Stop
Relay Rating	NC/NO up to 20A
Transmitter Power	2 AA Size Battery (Alkaline / Rechargeable Ni-MH)
Receiver Power Supply	10 ~ 42 VDC
Operating Temperature	-40°C ~ +85°C
Reaction Time	< 0.1 Sec
Antenna	Internal
LED Power Indicator	3 Stages Power Indicator
TX Dimension/Weight	112mm(L)*62mm(W)*39mm(H) /135g (w/o Batteries)
RX Dimension/Weight	130mm(L)*146mm(W)*64mm(H)/490g/525g(with panel)

Accessories (Option)



CD Software

USB Cable



8. Pairing Transmitter and Receiver

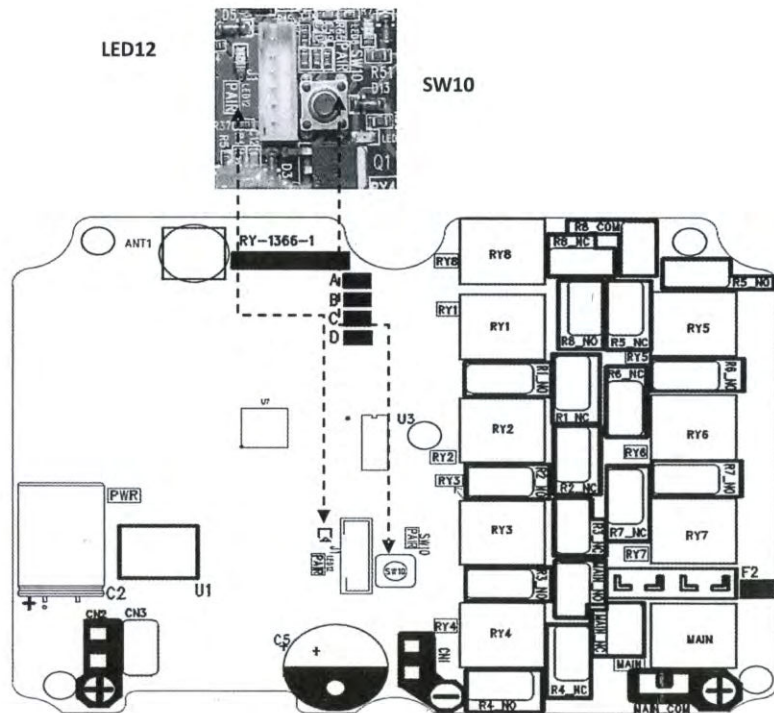
Attention:

1. Before carrying out the pairing processes, please make sure that transmitter and receiver switched off.
2. If the whole pairing processes are incomplete within 30 seconds, it will terminate automatically.

Through the following pairing processes, any SAGA1-V6 transmitter and receiver can be paired as a group working together.

1. Remove the receiver upper casing, then press and hold SW10 (Receiver) for 3 seconds, the LED12 will flash Red constantly.
2. Press and hold " Pushbutton 1 & 2 " on transmitter altogether initially, then press " Start pushbutton A".
3. LED Indicator on transmitter as flashes Green color
 - A. Press "Pushbutton 1" to confirm pairing processes
(This stores receiver's ID code/function setting into transmitter memory (Overwritten), then LED indicator will flash Green slowly and vanish, the whole process is completed.)
 - B. Press "Pushbutton 2" to abandon the processes.

Note: When assembling the SAGA1-V6 Receiver upper & bottom casing together, please assure that the pressure balance air bag is not squeezed or being compressed by wires.



1. Limited Warranty

Warranty

Gain Electronic Co., Ltd. guarantees that this equipment meets its published specifications at the time of shipment from the factory. This equipment will perform as described if installed properly. However, Gain cannot guarantee that operation in SAGA product is absolutely error-free, or without interruption.

Warranty Period

This equipment is warranted against defects in materials and workmanship for a period of one year from the date of shipment. During the warranty period, Gain is responsible for necessary repairs as long as the product can be proved to be defective.

For warranty service or repair, this equipment must be returned to the service facility designated by Gain. Customer is responsible for shipping charges to Gain, while Gain will bear return shipping charges.

Excluded Items

This warranty does not include consumable parts such as batteries, fuses, buttons and relays. Also this warranty does not cover failure or damage resulting from misuse, accident, unauthorized modification, unsuitable operating environment, natural disasters, improper software setting or improper maintenance.

Limitation of liability and remedy

If your SAGA product fails to work as warranted above, Gain's maximum liability under this limited warranty is expressly limited to the lesser of the price you have paid for the product. Gain disclaims any liability as a result of any direct/indirect, special, incidental or consequential damages.

Remarks

No other warranty is expressed or implied, except for the above mentioned.

2. Attention

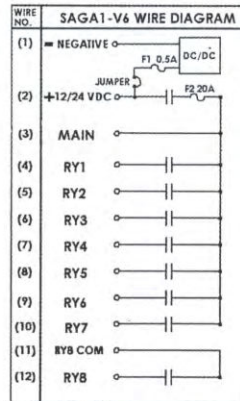
- ◀ Read this manual carefully before operating and installation.
- ◀ Due to the complex nature of equipment, it is necessary to read the entire manual before installation.
- ◀ Never allow any unauthorized personnel to dismantle equipment as this may cause the equipment damage.
- ◀ The equipment has been stringently tested for quality assurance before delivery from factory. However, it must not be used in extremely dangerous situations, or where damage may result.
- ◀ Do not use this device during electrical storm or where there are conditions of high electrical interference.
- ◀ Always check transmitter battery and receiver input power condition before operation.
- ◀ After operation, by pressing "STOP" pushbutton switches off receiver unit then keeping the transmitter in a safe place when not in use to avoid any unintentionally operation.
- ◀ The installation and maintenance service is allowed only when the receiver power is disconnected to avoid electrical shock.
- ◀ The contents of the manual may be amended by the manufacturer without notice.
- ◀ The specification and function of remote is subjected to change without notice by manufacturer.

3. Receiver Installation Caution

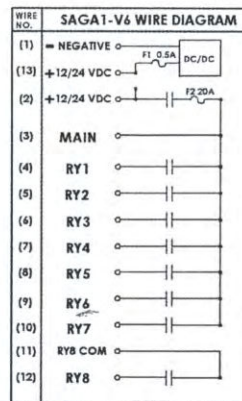
1. The installation of receiver is allowed only when the receiver remains off and power disconnected.
2. The installation of receiver should be equipped with additional safety devices e.g. isolation switches, fuses .etc...
3. We strongly recommend mounting the receiver as followings:
 - ◀ Mounting spot should keep a safety distance with battery, fuel tank (fuel lines), and exhaust muffle.
 - ◀ Mounting spot is better with the shade for climate circumstances are normally extremely hot or humid.
 - ◀ Avoid the location with vibration and receiver's cable gland should face down.
4. Please read the receiver wiring diagram carefully before starting installation.

4. Wiring Diagram

The standard wiring is as picture #1 shown. If it requires the separate source of power line for relays and receiver input power, please unplug the red jumper (Picture #1) and re-plug the spare wire #13 (Picture #2 shown), thus wire #2 becomes positive polarity contact (COM) for output relays.

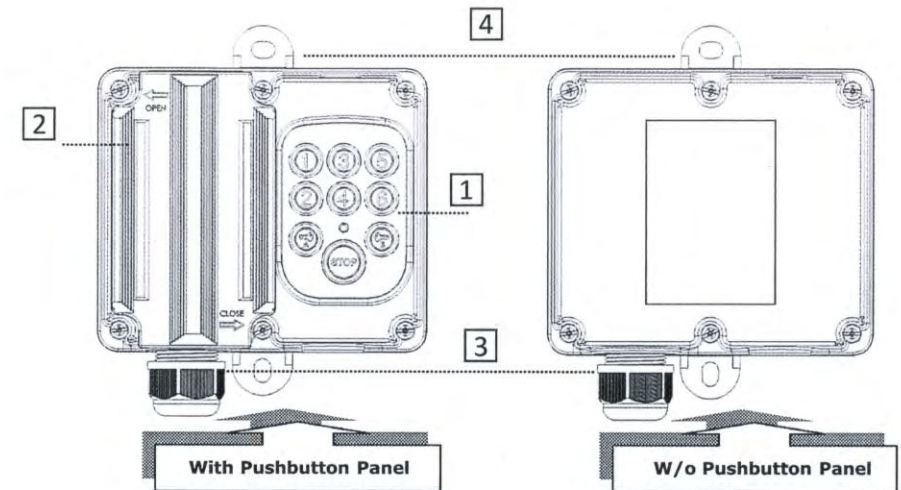


Picture #1.



Picture #2.

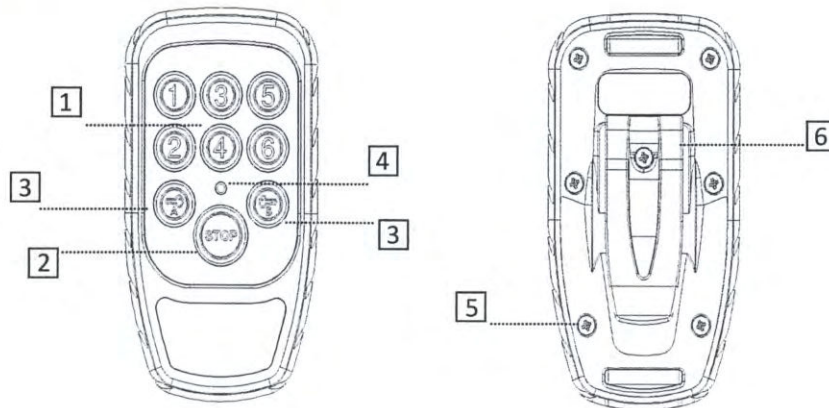
SAGA1-V6 Receiver Overview



1 Function Buttons 2 Sliding Cover 3 Cable Gland 4 Mounting Holes

5. Transmitter & Receiver Overview

SAGA1-V6 Transmitter Overview



1 Function buttons 2 Stop Button 3 Start Pushbutton A/Start Pushbutton B
4 LED Indicator 5 Bottom Casing 6 Belt Clip

6. General Operation

Getting Started

1. Unscrew the bottom casing of transmitter, install 2 new AA-size batteries in the battery compartment (make sure batteries correctly installed according to the indication of "Positive" & "Negative") and fasten transmitter bottom casing firmly.
2. Press and hold "Start Pushbutton A" & "Start Pushbutton B" on transmitter simultaneously (Factory default) to power on the system.
3. Press function button for operation.

Deactivate the operation of transmitter

Press Stop pushbutton to deactivate the operation of transmitter and switch off receiver power isolate switch.

7. Transmitter LED Indicator

Transmitter status Indication

1. Red (Blinking Rapidly): Transmitter is not being activated correctly or pushbutton jammed.
2. Red (Blinking Slowly): Transmitter is activating but receiver is not able to work properly.
3. Green (Blinking Slowly): Transmitter and receiver both have been activated successfully.

Transmitter Battery Indication

1. Green (Full Power): Operate as usual.
2. Yellow (Mid Power): Stop operation until new batteries are replaced.
3. Red (Low Power): A Stop signal will be sent to receiver automatically to turn off receiver. To avoid the interruption during operation, check battery power frequently.