

Remko T4K Radio Remote

INSTRUCTIONS MANUAL



Key features

- * Plug n Play 2 Channel Hand Held Remote Control (up to 4 channel)
- * 4 Channel Receiver with 4 Changeover Relay outputs
- * Range up to 500m line of sight.
- * Idea for remote control applications where outputs are required for control of a device or remote/start stop required for control of a device or remote/start stop systems.
- * Multi voltage input from 11 to 28VDC
- * Programmable from momentary output (relays are energised for the time the buttons are pressed).
- * Programmable for Flip/Flop Output (press button once to energize , press button once to de-energise relay output.)
- * Can be individually code to specific transmitters or receivers can be coded alike.
- * Easy to have additional hand held remotes coded to receivers.

Hardware features

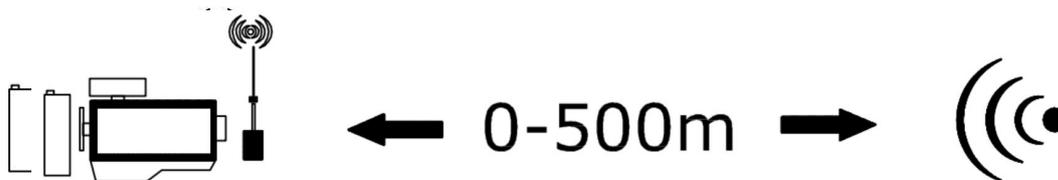
| | |
|--|---|
| <p>4 Channel 433Mhz Transmitters and Receivers 9-30VDC Input Voltage Receiver 9V Battery for 2 Channel Transmitter</p> | <p>IP65 Plastic Enclosure 175tall x 130wide x 90deep Mounting via 4 fitted brackets 433Mhz Antenna (350mm Tall) with Mounting Bracket</p> |
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Remko T4K SERIES LoRA 433MHZ REMOTE BI-DIRECTIONAL TRANSCEIVER / REMOTE

Congratulations on your purchase of a new Bi-Directional Transceiver Module & Pendant. This product has been designed to control devices of your choosing, On or Off, with the convenience of a hand-held remote. This remote specifically uses the latest LoRa remote chipsets. The benefits of this technology is that you not only transmit a strong signal, but also your pendant receives confirmation (Bi-Directional) that the module has received your command. This function especially gives piece of mind knowing that what you transmit, has been acknowledged by your EQUIPMENT.

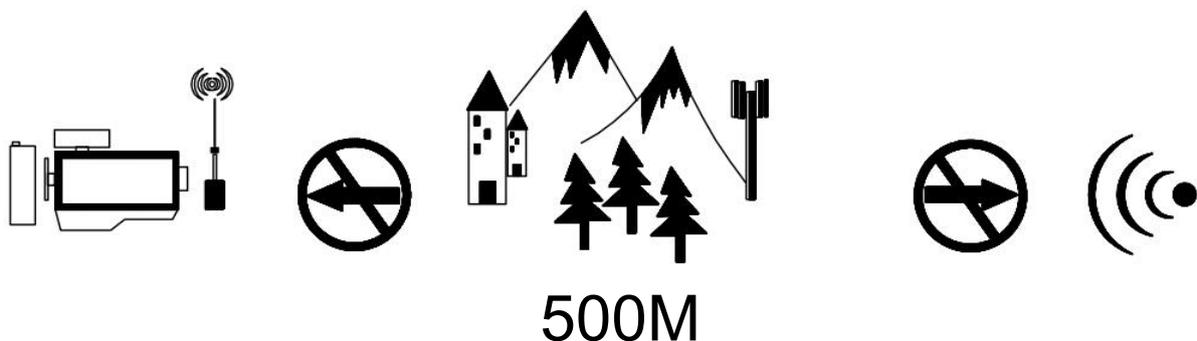
Technical DATA

- | | |
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| <ol style="list-style-type: none"> 1. Model -TK 2. Operating voltage ----- 12VDC or 24VDC 3. Quiescent current ----- 16mA 4. Working Current ----- 65mA 5. Max load ----- 16A 6. Multiples channels 4-6-8-10-12-16 7. Operating frequency -- 433MHz | <ol style="list-style-type: none"> 8. Receiving sensitivity ----- -10dBm 9. Modulation Type ----- FSK+LORA 10. Operating temperature ---- -10p~+70p 11. Size ----- 100 x 68 x 40mm (without case) 12. Maximum Pendants per MODULE, 20 Hand-Held Remotes 13. Recommended Range ---- 10-500 METERS LINE OF SIGHT UP TO 0.7KM (700 meters) MAXIMUM LINE OF SITE with Optional Extension AERIAL. |
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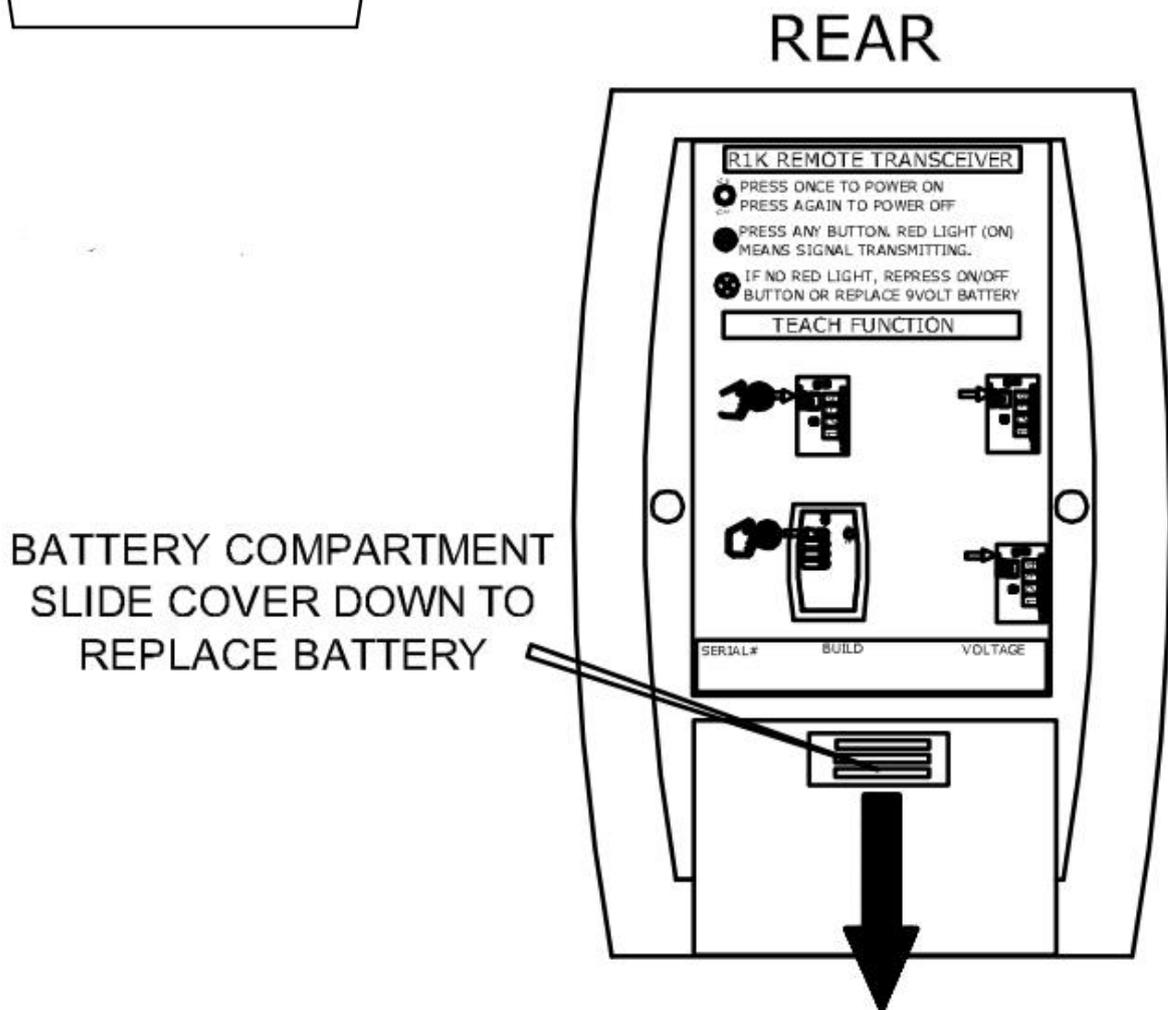
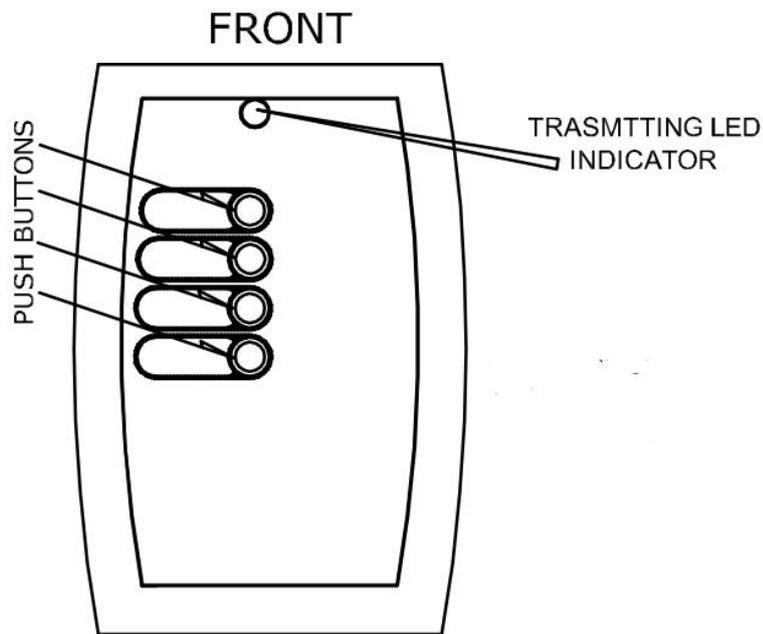
RECOMMENDED RANGE, LINE OF SIGHT

LINE OF SIGHT - IF YOU CAN'T SEE IT, YOU CAN'T CONTROL IT.



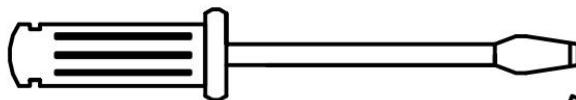
**OBSTRUCTIONS. BUILDINGS, DENSE VEGETATION, TREES,
LARGE HILLS, POWER LINES, MOBILE TOWERS
WILL LIMIT YOUR REMOTE'S RANGE OR BLOCK SIGNAL ENTIRELY**

HAND HELD REMOTE

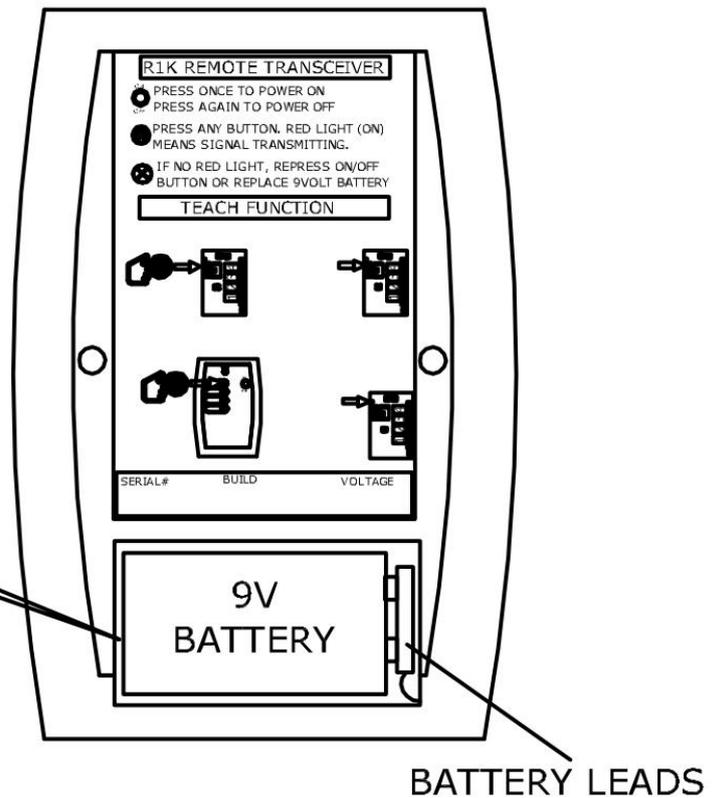


REAR

THE 9V BATTERY SITS FIRMLY IN THE COMPARTMENT. REMOVE BY USING A THIN SCREWDRIVER AT THE REAR OF THE BATTERY, PUSH FORWARD & WEDGE UP.



INSERT FINE BLADE SCREWDRIVER HERE



PROGRAMMING PENDANTS AND RECEIVERS

Warning: Please read carefully before programming pendants to receivers. Incorrect programming procedure may clear previously paired pendants. All pendants will need to be paired again.

Introduction:

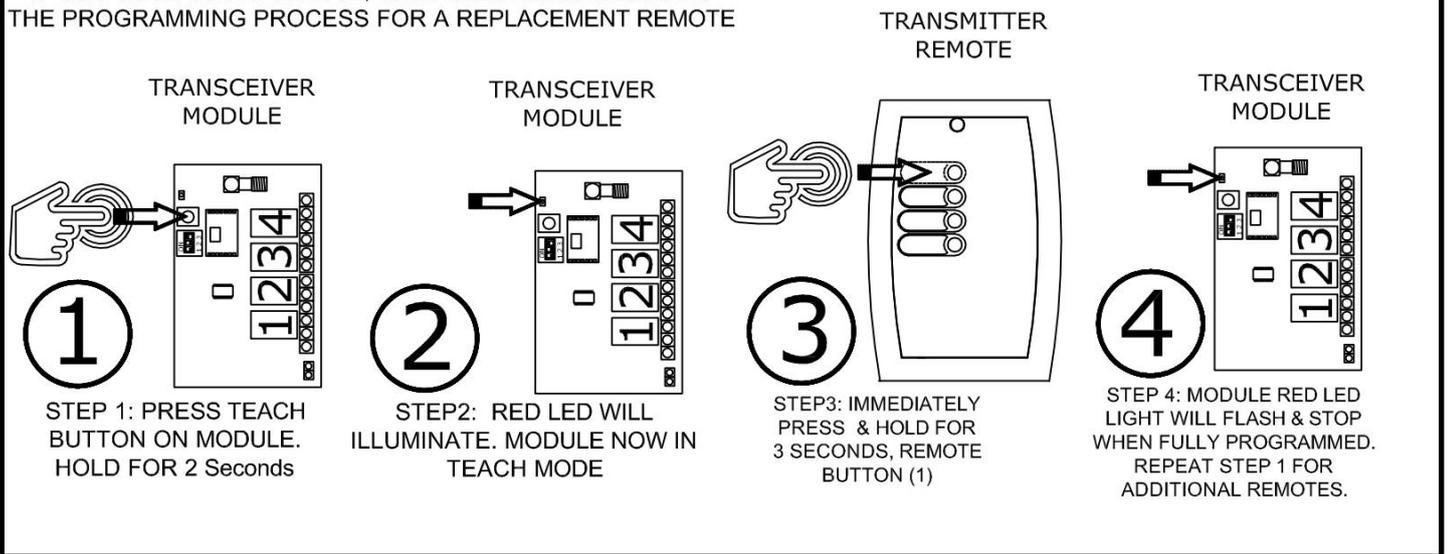
Receivers and Pendants are paired devices.
One receiver can be paired to up to 20 different pendants.
One pendant can be paired to multiple receivers.

Pairing the Receiver and Pendants.

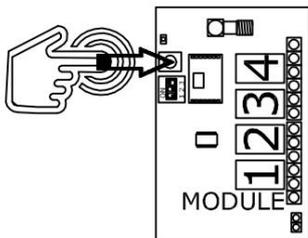
1. Press the Teach (learning button) on the receiver board until the LED indicator turns ON. Immediately press any key of the pendant to be programmed. If the LED blinks twice on the receiver the pairing is successful. If enabled the feedback beep may be heard.
2. To add additional pendants to the current receiver repeat process 1. (up to 20 pendants max),
3. For multiple receivers on the same pendant - repeat process 1 on the next receiver with the current pendant.
4. To delete all pendants on a receiver - hold the teach (learning) button until the LED on the receiver board flashes 3 times then release it.

HOW TO SET UP NEW REMOTE CODE

IF YOU LOSE YOUR REMOTE, THE FOLLOWING DESCRIBES THE PROGRAMMING PROCESS FOR A REPLACEMENT REMOTE

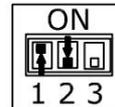


HOW TO CLEAR REMOTE CODE

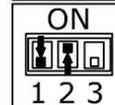


HOLD TEACH BUTTON FOR 8 SECONDS. THE LED WILL FLASH and STOP. CODE NOW CLEAR. FOLLOW STEPS 1-4 TO REPROGRAMME.

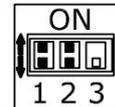
HOW TO CHANGE RELAY FUNCTION



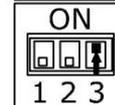
RELAY TOGGLE MODE
Dip Switch 1 'ON' & 2 'OFF'



RELAY LATCH MODE
Dip Switch 1 'OFF' & 2 'ON'



MOMENTARY MODE
Dip Switch 1 & 2 'OFF' or 1 & 2 'ON' position



FEEDBACK SOUND
Dip Switch 3 'ON' activates feedback sound on PENDANT

R1

K4 = RELAY 1 NORMALLY OPEN
G4 = RELAY 1 GROUND
B4 = RELAY 1 NORMALLY CLOSED

K4 = N/O

G4 = GND

B4 = N/C

K3 = N/O

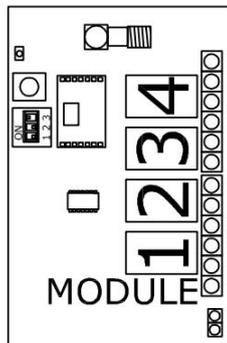
G3 = GND

B3 = N/C

9V = POWER

GND = GROUND

KEY



PLEASE NOTE RELAY AND TERMINAL NUMBERS

R4

K1 = RELAY 4 NORMALLY OPEN
G1 = RELAY 4 GROUND
B1 = RELAY 4 NORMALLY CLOSED

B1 = N/C

G1 = GND

K1 = N/O

B2 = N/C

G2 = GND

K2 = N/O

GND = MAIN GROUND
9V = MAIN POWER

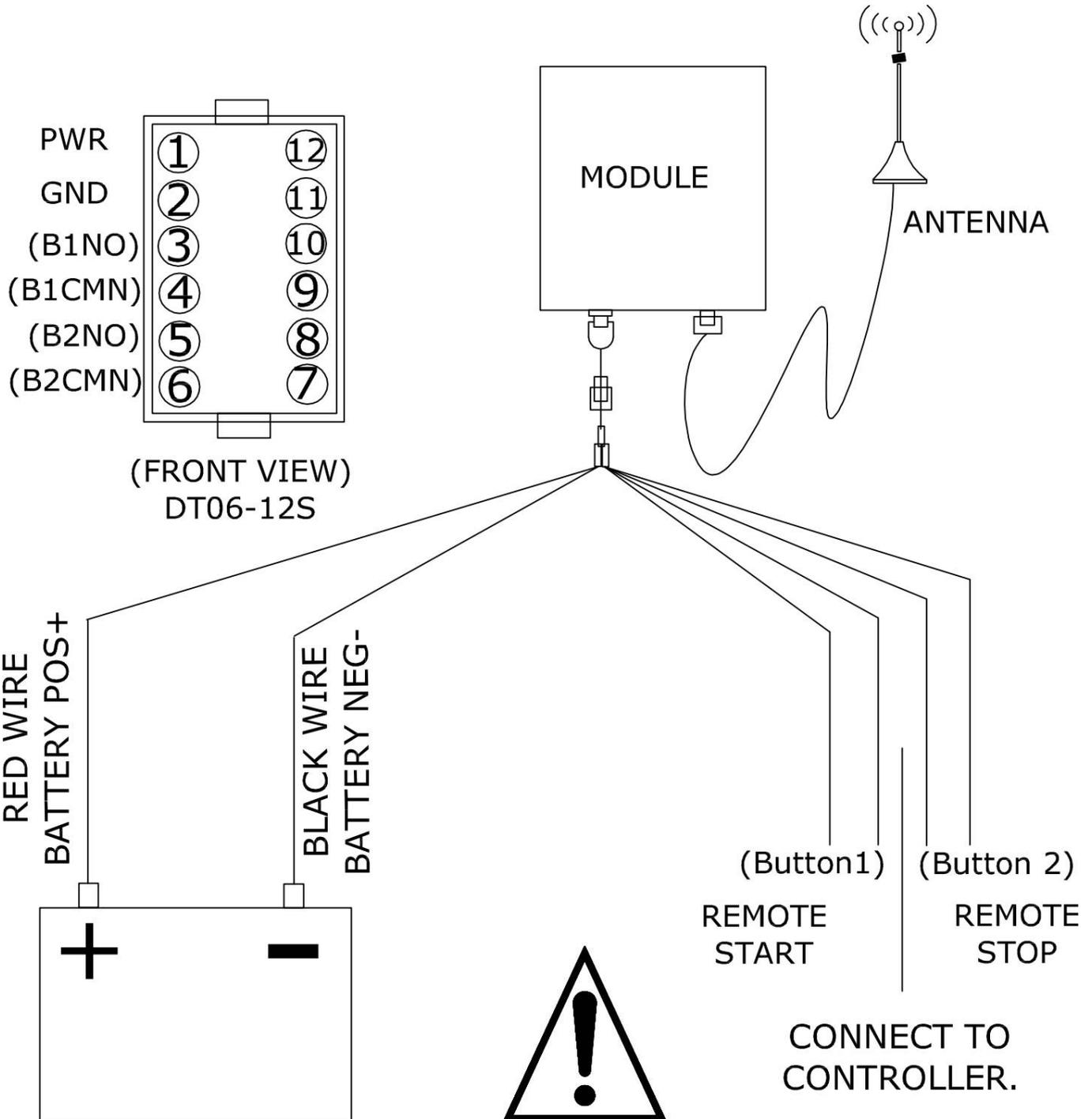
R2

K3 = RELAY 2 NORMALLY OPEN
G3 = RELAY 2 GROUND
B3 = RELAY 2 NORMALLY CLOSED

R3

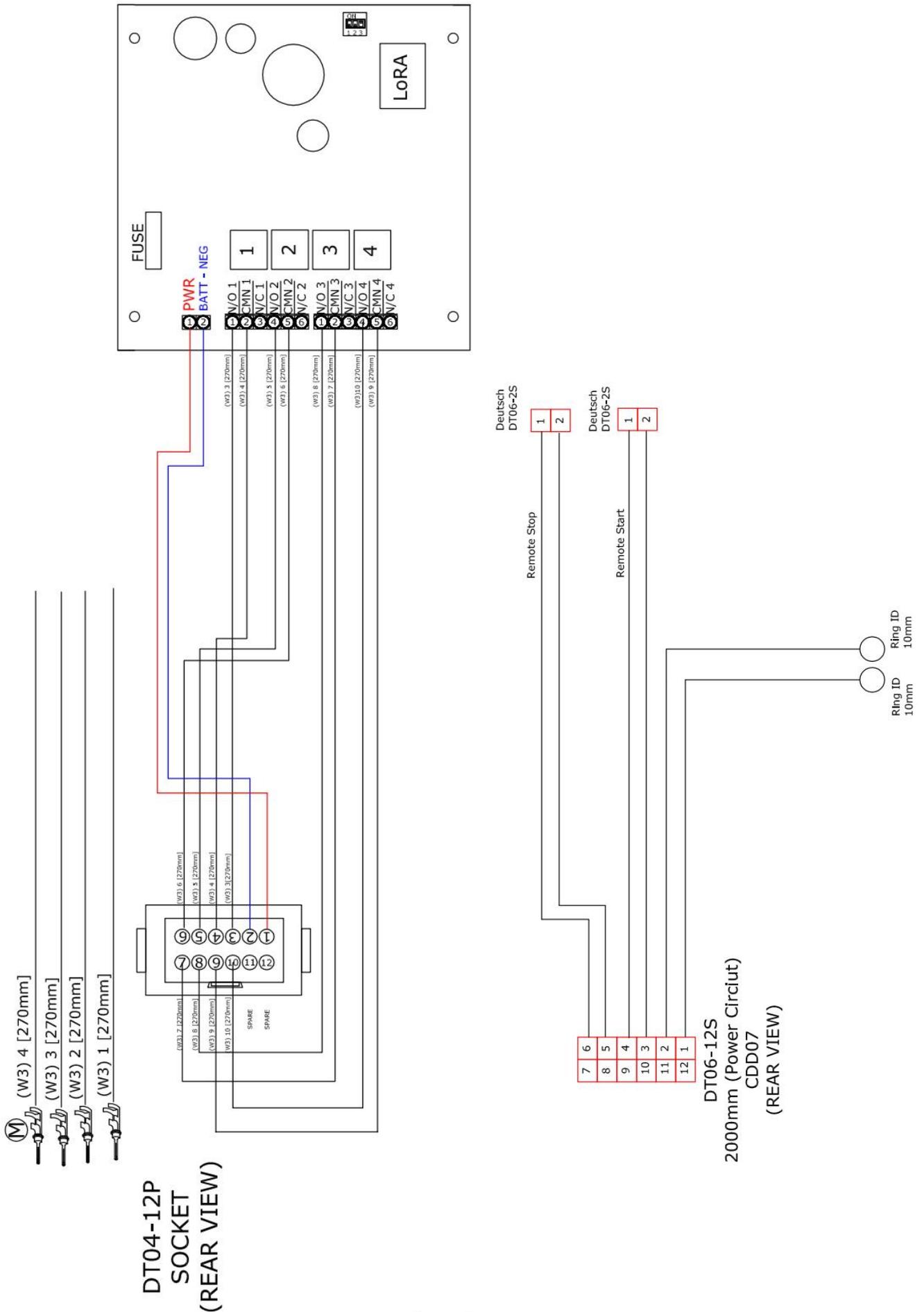
K2 = RELAY 3 NORMALLY OPEN
G2 = RELAY 3 GROUND
B2 = RELAY 3 NORMALLY CLOSED

TK-EXT-LOOM-STANDARD



IMPORTANT:
PLEASE ENSURE THE RED WIRE IS CONNECTED TO + BATTERY POSITIVE POST & BLACK WIRE TO YOUR NEGATIVE POST ON YOUR BATTERY. DAMAGE MAY RESULT IF NOT CONNECTED CORRECTLY.

SCHEMATIC





WARNING



READ USER
MANUAL
CAREFULLY!



DO NOT
MODIFY THIS
EQUIPMENT



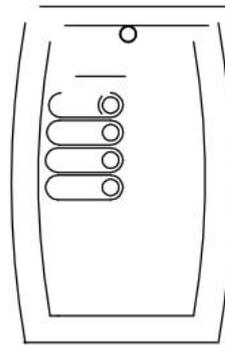
SERVICING!
REMOVE
POWER

MODULE ENCLOSURE



WARNING:
DO NOT OVERTIGHTEN PLASTIC COVER
SCREWS. OVERTIGHTENING WILL STRIP
THE ENCLOSURE'S THREADS, ALLOWING
WATER TO ENTER AND CAUSE DAMAGE
TO THE ELECTRONIC MODULE.
WATER INGRESS WILL VOID WARRANTY.

REMOTE PENDANT



WARNING:
AVOID SUBJECTING THE PENDANT
TO EXCESSIVE HEAT, VIBRATION,
SHOCK & IMPACT.

AVOID WATER.
THIS PENDANT IS NOT WEATHER PROOF!



WARANTY

WARRANTY CLAIMS: Warranty Claims must be directed to the dealer/installer where the product was originally purchased. All claims submitted must include an original tax invoice. One claim per customer. It is at Remko's absolute discretion to accept or reject a claim based on the evidence presented at the time of the claim.

LIMITED LIABILITY: No damages shall arise or claim made against Remko from the improper use or Installation of any Remko products. It is the Purchaser's responsibility to install and/or determine the suitability of the Remko product to its intended and final use. Any Service, Repair or Installation of equipment must be carried out by knowledgeable trade certified personnel. No warranty or remedies may arise due to damage of auxiliary equipment or injury to personnel. Engines and Experience vary and therefore this document is intended as a GUIDE ONLY. SAFETY FIRST! Any Service, Repair or Installation of equipment must be carried out by knowledgeable trade certified personnel.

DEFECTIVE GOODS: In the unlikely event that a good is defective, Remko will at its discretion replace the item. Any returned items to Remko, the postage charge, time or labor will be at the purchaser/s expense. Remko will not cover extraneous costs born as a result of loss due to defective product/s. Remko will not cover the cost of technical repair of equipment faults in the 'field' unless otherwise approved by Remko in written form only.

Contact Information:

Remko Pumps
4 McHarry Place, Shepparton
Victoria 3630, Australia
Tel: 1800 333 424
Email: remkosales@allflo.com.au