

Remote Control Manual

Remote Control
for
TDR range



Contents

Safety and maintenance information	3
Keyboard	5
Remote control configuration	5
Keys functions	7
Changing RF channel	8
Change of transmission channel on the handheld remote	9
Change of transmission channel on the power board	10
Board output connection	11
Power supply	12
Valves box	12
Troubleshooting	13
Parts List	14
Manual override	16

REMOTE CONTROL SAFETY AND MAINTAINANCE INFORMATION

- Never open the protection box of the remote control.
- Should the remote control be damaged, or should liquids have soaked in, have the item checked by a service point.
- Never pull the cables in order to disconnect the remote control charger, but remove the connectors in the right way.
- If the device is provided with an electro-valve control box, remind that this is equipped with a fuse for protection against power supply inversions and current overflowing. In case the fuse breaks down, replace it with an equivalent one.
- Do not lay the device cables (e.g. load cell cables, data transmission cables, cables to control relay boards, etc.) near supply cables of other electric or electronic devices.
- Supply the device with tensions consistent with the technical features of the product.
- Have installation and maintenance work carried out by qualified staff.
- Working on the electro-valve control box, by making connections or adjustments which are not authorized by the manufacturer will void the warranty.
- Do not lay the cables which are connected to the remote control charger near moving mechanical parts.
- Once you have finished working with the device, we suggest you store it on its holder.
- Before cleaning the machine with high-pressure water, protect the remote control against possible water infiltrations. We also remind you to be extremely careful and not expose electronics, cables and other optionals to direct water jets.
- It is possible to clean the remote control outside by using a soft and damp cloth, avoiding solvent or abrasive substances, sharp or cutting objects which can damage the device.
- Do not expose the remote control to temperatures higher than the limits indicated in the technical features.
- In order to reach a longer duration, do not expose the remote control directly to atmospheric events, such as rain, snow, frost, etc.
- Do not use sharp or cutting tools to press the keys.
- Before carrying out installation, maintenance and reparation works on the system, disconnect the power supply.
- Before carrying out welding on the machine, disconnect all the cables from the remote control.
- In case of welding on the machine, place the grounding clip near the welding point, in order to prevent electric current from passing through the load cells.
- In case of welding on the device/machine, disconnect the electro-valve control box and the electronic equipment, by unplugging the power supply cable, all the electro-valve cables and the connection cable to the handheld remote control.
- We suggest NOT to use electro-valves which have the connection to the body of the electro-valve itself.
- All responsibility for installation, maintenance and reparation works falls on the person who carried them out.
- The constructor of the machine on which the device is installed takes on the responsibility to fix the parts of the device properly, in order to prevent any dangerous contact of the operator with the dangerous area. In particular, if the device can control electro-valves, when the operator pushes a button, he is supposed to be aware of the corresponding movement on the machine.
- It is responsibility of the constructor of the machine on which the device is installed to:
 - Evaluate risks and safety of the system
 - Provide the correct power supply on the device TELE-RF, in order to guarantee the correct functioning of the device in full respect of the regulation EN 60204-1.



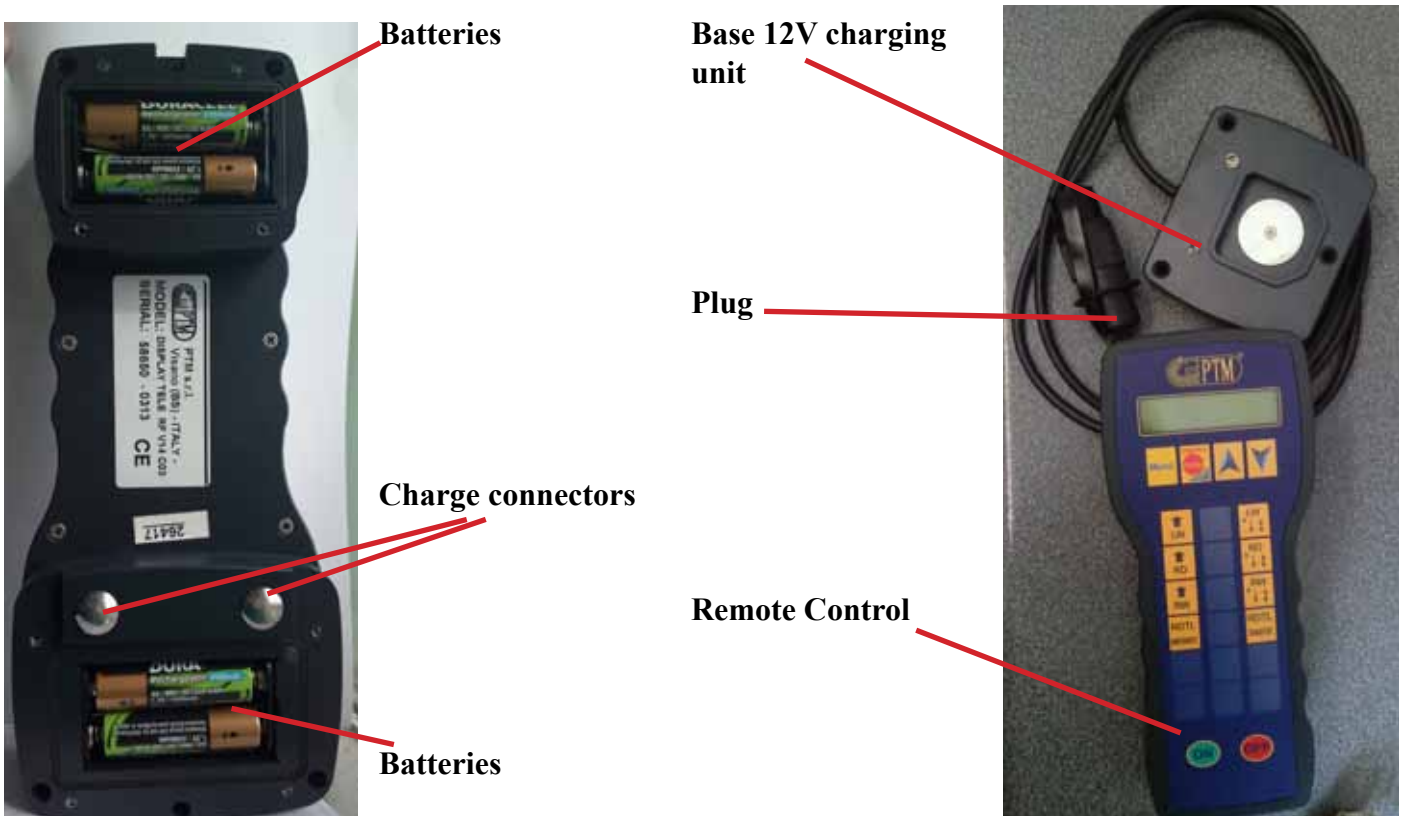
Do not use high-pressure devices to clean the remote control and charger

TECHNICAL INFORMATION (*TELE-RF-V14C02 model*)







Analogical keyboard	
ABS Case	
Protection	IP65
Size	L 105 x H 240 x P 56
Weight	740 gr
Display	LCD alphanumeric backlit (2 lines, 16 characters per line)
Memory	Eeprom non volatile
Battery	4 batteries, type AA NiMH rechargeable
Battery life	8h
Battery charge time	5h
Operating conditions	-20 °C + 60 °C
Relative Humidity	95 %
Supply voltage	From 11 to 28 Vdc
Absorbed power	5 VA during the charge of the battery – maximum 15 VA
Transreceiver	A868 MHz in FM
Antenna RF Inside	
Display visible also in full sunlight	
Protection against radiofrequency interference	
Suppression of the interference superposed to the power supply	
Faulty battery signal and control	
Low-tension signal	
Operating ranging: over 50 m.	
4 available transmission channels, for the connection of 4 devices contemporarily	




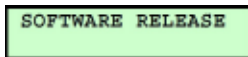








Connect remote control charger to 12V DC ONLY





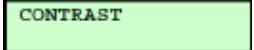
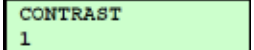



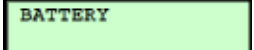
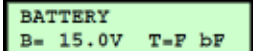
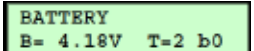

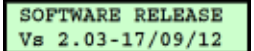







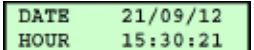
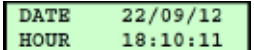










KEYBOARD

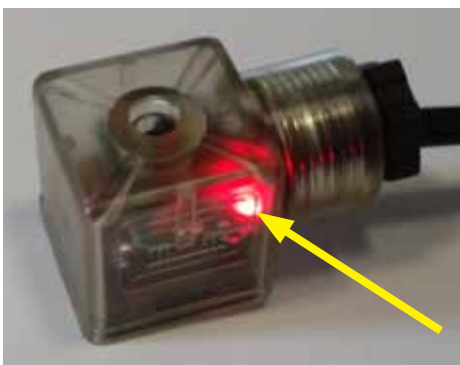
KEY	FUNCTION
	SWITCH ON THE REMOTE
	SWITCH OFF THE REMOTE
	<ul style="list-style-type: none"> · CONTRAST · BATTERY · SOFTWARE RELEASE · CLOCK
	<p>EMERGENCY STOP BLOCKS ALL THE ACTIVE OUTPUTS <i>TO DISABLE: PRESS THE KEY MENU</i></p>
	<p>KEY UP Select options and submenus, scroll lists</p>
	<p>KEY DOWN Select options and submenus, scroll lists</p>

REMOTE CONTROL CONFIGURATION

FUNCTION	OPERATION	DISPLAY
Configuration Menu	To access the main menu, press the  key for few seconds.	
Scroll the list of available submenus	Press  and  to select the submenu	<ol style="list-style-type: none"> 1. CONTRAST 2. BATTERY 3. SOFTWARE RELEASE 4. CLOCK
Enter the submenus to make changes	Once you have chosen which submenu you want to change, press the  key to enter the modification mode. By pressing the  and  keys and you can select the new value.	
Save the changes or leave without saving	Press  to save changes Press  to quit without saving.	
Leave the configuration menu	Press  to leave the configuration menu.	

FUNCTION	OPERATION	DISPLAY
CONTRAST	<p>In this menu the value of the contrast of the LCD display is shown.</p> <p>Once you are in the menu, use  and  to select the contrast value you desire between -10 and +10.</p> <p>Once the contrast is set, press  to confirm and save, or  to exit.</p>	 
BATTERY	<p>Power supply modes are displayed in this menu. If the device is fitted with RF communication, the information about battery is also shown.</p> <p>Use  and  to navigate through the menu.</p> <p>T=0 : Power supply with 1800 mA/h battery pack T=1 : Power supply with 1600 mA/h battery pack T=2 : Power supply with NiMH batteries T=F : Power supply connected to the power board by cable.</p> <p>By selecting a power supply mode which does not correspond to the actual one, the will show invalid figures.</p> <p>Press the key  to exit.</p> <p>NOTE: By selecting T=F the battery charge value will not be displayed; if the device is instead supplied through batteries, the charge value will be displayed every 10 seconds.</p>	  
SOFTWARE RELEASE	<p>The software release version is displayed in this menu.</p> <p>Once you have seen the version, press  to exit.</p>	
CLOCK	<p>Date and time is shown in this menu.</p> <p>To modify date and time, press  to enter into the modify mode and use the keys  and  to modify the selected value. Press  to go on to the following parameter, or  to exit without saving.</p> <p>Scroll through the parameters by pressing  to save the changes.</p>	  

KEYS FUNCTIONS		
FUNCTION	OPERATION	DISPLAY
Left wing Up Left wing Down / Float	 By keeping this key pressed, the left wing rises up. By releasing the key, the left wing stops.  By keeping this key pressed, the left wing goes down and floats the same time. By pressing the key again, descent and floating stop. A red LED light indicates that the action is active (see diagram below).	<div style="border: 1px solid black; background-color: #e0ffe0; padding: 2px; margin-bottom: 2px;">Left wing UP ON</div> <div style="border: 1px solid black; background-color: #e0ffe0; padding: 2px; margin-bottom: 2px;">Left wing UP OFF</div> <div style="border: 1px solid black; background-color: #e0ffe0; padding: 2px; margin-bottom: 2px;">Left wing DW/FLT ON</div> <div style="border: 1px solid black; background-color: #e0ffe0; padding: 2px; margin-bottom: 2px;">Left wing DW/FLT OFF</div>
Rear deck UP Rear deck DOWN/ Float	 By keeping this key pressed, the rear deck goes up. By releasing the key, the rear deck stops.  By keeping this key pressed, the rear deck goes down and floats the same time. By pressing this key again, descent and float stop. A red LED light indicates that the action is active.	<div style="border: 1px solid black; background-color: #e0ffe0; padding: 2px; margin-bottom: 2px;">Rear deck UP ON</div> <div style="border: 1px solid black; background-color: #e0ffe0; padding: 2px; margin-bottom: 2px;">Rear deck UP OFF</div> <div style="border: 1px solid black; background-color: #e0ffe0; padding: 2px; margin-bottom: 2px;">Rear deck DW/FLT ON</div> <div style="border: 1px solid black; background-color: #e0ffe0; padding: 2px; margin-bottom: 2px;">Rear deck DW/FLT OFF</div>
Right Wing UP Right Wing DOWN/ Float	 By keeping this key pressed, the right wing rises up. By releasing the key, the right wing stops.  By keeping this key pressed, the right wing goes down and floats the same time. By pressing the key again, descent and floating stop. A red LED light indicates that the action is active.	<div style="border: 1px solid black; background-color: #e0ffe0; padding: 2px; margin-bottom: 2px;">Right wing UP ON</div> <div style="border: 1px solid black; background-color: #e0ffe0; padding: 2px; margin-bottom: 2px;">Right wing UP OFF</div> <div style="border: 1px solid black; background-color: #e0ffe0; padding: 2px; margin-bottom: 2px;">Right wing DW/FL ON</div> <div style="border: 1px solid black; background-color: #e0ffe0; padding: 2px; margin-bottom: 2px;">Right wing DW/FL OFF</div>
Rear deck top link block Rear deck top link transport	 By keeping this key pressed the rear deck top link blocks. By releasing this key, the rear deck top link unblocks.  By keeping this key pressed the rear deck goes up/down. By releasing the key, the rear deck stops moving.	<div style="border: 1px solid black; background-color: #e0ffe0; padding: 2px; margin-bottom: 2px;">T.linkR.deck bl ON</div> <div style="border: 1px solid black; background-color: #e0ffe0; padding: 2px; margin-bottom: 2px;">T.linkR.deck bl OFF</div> <div style="border: 1px solid black; background-color: #e0ffe0; padding: 2px; margin-bottom: 2px;">T.linkR.deck tr ON</div> <div style="border: 1px solid black; background-color: #e0ffe0; padding: 2px; margin-bottom: 2px;">T.linkR.deck tr OFF</div>









Red LED light indicated that the valve is open.

Changing RF channel





The first 9 keys (T1-T9) have the following functions in programming or installing phase:

KEY	FUNCTION
	ARROW UP Selection of submenus and options. Scrolling lists. Changing the selected value.
	ARROW DOWN Selection of submenus and options. Scrolling lists. Changing the selected value.
	RIGHT ARROW Selection of submenus and options. Scrolling lists. Positioning the blinking cursor.
	LEFT ARROW Selection of submenus and options. Scrolling lists. Positioning the blinking cursor.
	ENTER Entering the changing mode. Confirming the selection. Saving the choices made.
	ESC Leaving the context without saving any change.

CHANGE OF TRANSMISSION CHANNEL ON THE HANDHELD REMOTE

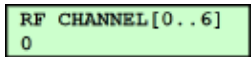

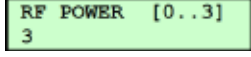
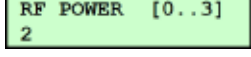
In order to change the RF channel on the REMOTE please follow the steps below:


1. Switch on the device until the sentence “KEYS WAITING” appears.

2. Press the keys  and  at the same time for few seconds, in order to enter the code menu.

3. Enter code 43.


4. Follow the instruction:

CODE	OPERATION	DISPLAY
Code 43 RF parameters Setup	<p>This code is used to configure the parameters for RF transmission of the device. The parameters for RF communication are the following:</p> <p>RF CHANNEL Parameter to set out the transmission channel of the device. There are 4 different transmission channels in the device: 0, 2, 4, 6. As default, the device is configured with transmission channel 0.</p> <p><u>In this parameter it is necessary to set out the RF transmission channel of the handheld remote. Every time the transmission channel is selected, the RF transmission module on board of the device is set out.</u></p> <p>RF POWER Here it is possible to set out the transmission power of the device; it is included from 0 (min.) to 3 (max.). The default value set out in REMOTE CONTROL is 3.</p> <p><u>In order to reach a higher transmission distance, set out the max. transmission power.</u></p>	   

5. Leave code 42 by the key .

6. Enter code 72

7. Make sure that the parameter “Key speed 1” is set out as OFF.

8. At the end of all changes, leave the code menu by pressing the key  until you get back to the menu “KEYS WAITING”.

CHANGE OF TRANSMISSION CHANNEL ON THE POWER BOARD

In order to change the RF channel on the Power board please follow the steps below:

1. Disconnect the power to the POWER box.
2. Unscrew 4 plastic screws as shown below.



3. Open the cover



4. Find the dip-switch on the board (see picture below):



5. Move the contacts, in order to get the desired configuration.

CONTACT 2	CONTACT 1	RF CHANNEL
0	0	0
0	1	2
1	0	4
1	1	6

CONTACT 3	RF POWER
0	3
1	1

6. Place the cover in its original position and fasten 4 plastic screws. Reconnect the power.

Board output connection

Board output	Output	Function	Cable type	Lenght mm (total)	Lenght mm (ext.)	Hole N°
O1	V1	Rear platform top connection block	2x1	700	250	1
O2	V3	Rear platform Up	2x1	700	250	2
O3	V5	Left Wing Up	2x1	700	250	3
O4	V7	Right Wing Up	2x1	700	250	4
O5	V9	General Valve	2x1	700	250	5
O6	V2	Rear platform top connection transport	2x1	810	360	6
O7	V4	Rear platform down / float	2x1	870	420	7
O8	V6	Left wing down / float	2x1	800	350	8
O9	V8	Right wing down / float	2x1	950	500	9
O10	V6a	Left wing down / float (2nd valve)	2x1	1020	570	10
O11	V8a	Right wing down / float (2nd valve)	2x1	1020	570	11

The cable length must be defined according to the Electro-valve head. Cut as indicated in the column “Length mm (total)”. Inside the box there must be 450 mm cable, of which 300 mm peeled off for internal wiring and 150 mm for the adjustment of the cable length.

CABLE TOTAL LENGTH: 8,97 m \approx 9 m

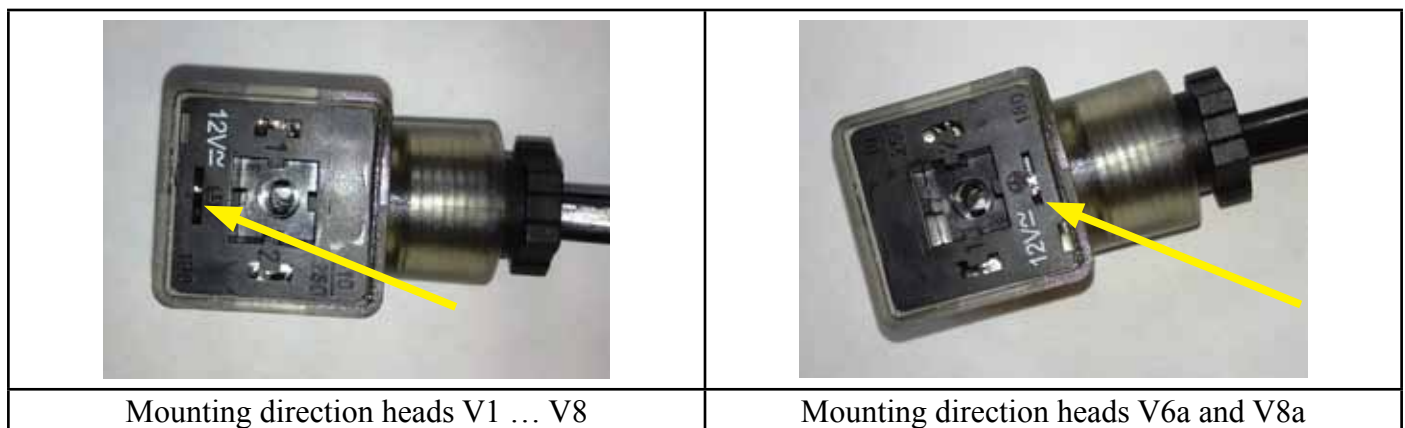
NOTES FOR MOUNTING:

The protection fuse must not be mounted into the box, it must be on the cable.

The electro-valve heads are provided with a red led.

The electro-valve heads must be filled with silicon.

The electro-valve heads of the outputs V6a and V8a are the other way round in comparison to the other fittings.



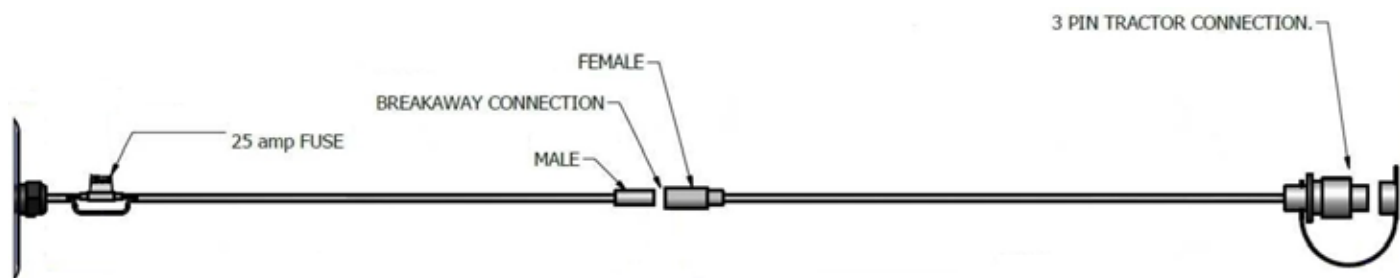
On the valve box there must be a label indicating “FUSE 25A MAX”

Place a label on the charger of the handheld control indicating “12-24 Vdc”

The emergency key has not to be mounted onto the valve box.

VARF board is treated with transparent and insulating spray paint.

Power supply



The power supply cable, as shown into the picture above, is divided into 2 connected parts.

The first piece of cable is connected directly to the instrument and its total length is 2300 mm (of which 300 mm peeled for internal wiring), including connector. A 2x6 mm cable should be used. The wires into the cable must be connected to the 2- poles connector and covered with heat-shrinking material with glue.

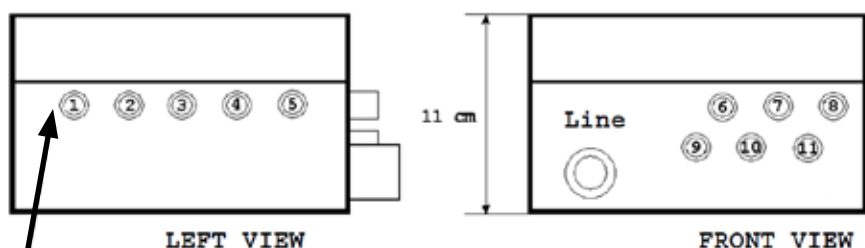
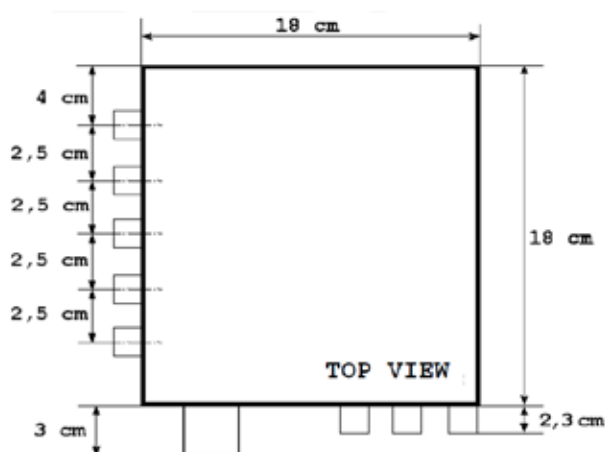
In this first piece of cable there is a fuse-holder, which is positioned 250mm after the PG cable gland of the power supply cable. Also in this case the connections must be covered with heat-shrinking with glue.

The second piece of cable has a 3000 mm total length, connectors included. In order to obtain the most precise cable size, cut the cable 3000mm long. In this case the cable used is 2x6 mm.

Connector's length:

- 2 poles female connector length : 35 mm
- 2 poles male connector length: 40 mm
- COBO connector length: 70 mm
- Fuse holder length: 40 mm

Valves box



ATTENTION: From the box to the bending angle of the electro-valve cable there is a distance of 35-40mm.

TROUBLESHOOTING

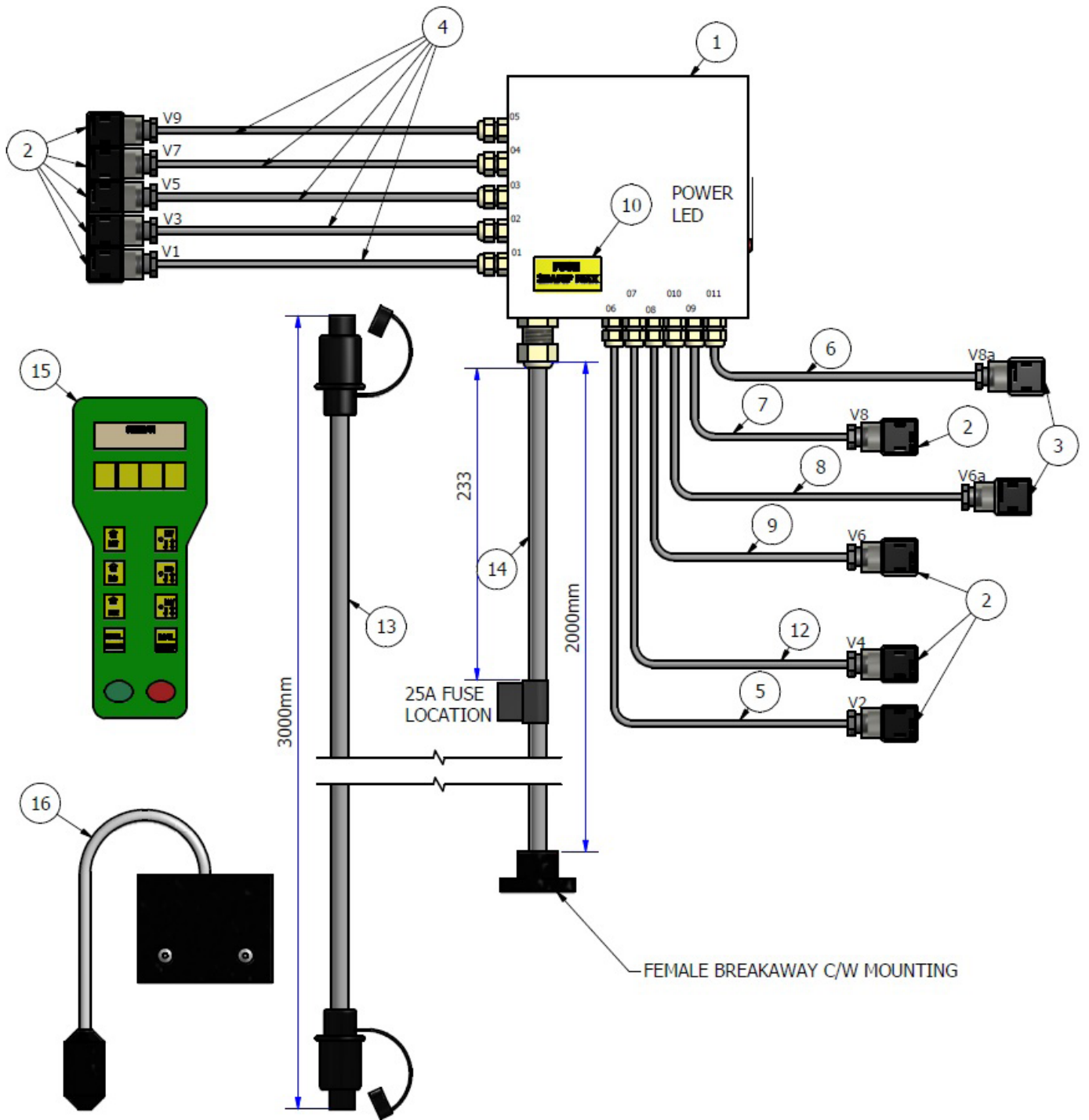
Error description	Action to be carried out	Effect	Solution	
<p>The REMOTE doesn't switch on, or the message Low Bat appears.</p> <p>(If the REMOTE is connected to the Charge Station).</p>	Check that the emergency keys on the device and on the power board are both released.	One or both keys were not released.	At least one key was not released. By releasing it, the system has been switched on and it is ready to work.	
		Both keys were released.	There is a fault, carry out the operation described at the following point.	
	Check that the power supply is conformed to the technical features of the product.	Power supply is not conformed to the product features.	The wrong type of power supply can cause this problem. Provide the device with the power supply indicated into the product specifications.	
		Power supply is conformed to the product features.	There is a fault. Carry out the operation indicated into the following point.	
	Check that the power supply cable is not interrupted or damaged, and that the power supply plug and the battery clamps are not oxidized; eventually replace them.	The unit switches on.	There was a fault on the power supply cable of the relay board. Now it is possible to start working again.	
		The unit does not switch on.	The fault can be on the junction cable. Carry out the operation indicated at the following point.	
	Check that the junction cable is not interrupted or damaged, and that the connector's pins are not oxidized or broken.	The junction cable or the connectors are damaged.	The junction cable is damaged and does not provide electric power supply to the REMOTE. Replace it.	
		The connection cable and connectors are safe.	The problem can be due to an electronic board fault. Call the service.	
	<p>Your REMOTE doesn't switch on anymore.</p> <p>Your REMOTE does not recharge anymore.</p>	Charge the device for at least 12 hours.	After the 12 hours charge the device switches on.	The battery was exhausted, now the device works correctly. If the operating time of the device begins to decrease, replace the battery pack.
			The device does not switch on even after the 12-hour charge.	The battery pack of the device is faulty or damaged. Replace it.
<p>On the display of the REMOTE the message "NO CONNECTION" is displayed.</p>	Get closer to the power board with the palmtop in your hands.	The REMOTE starts working again.	The REMOTE was too far from the power board. Reduce the distance between the REMOTE and the power board to allow the device to work correctly.	
		The REMOTE doesn't work.	The problem could be in the power board or in the remote control. Carry out the operation indicated below to verify the nature of the fault.	
	Check that the emergency button has been released, and that the red led on the box turns on.	The led is on and the emergency key is released.	The power board or the remote control are damaged. Call the service.	
		The led is off and the emergency key on the board is not released.	The power board was off. Release the emergency key to switch it on again and verify that the system starts functioning again. If the message "NO CONNECTION" continues to appear, carry out the operation described in next point.	
	Verify the REMOTE and the power board integrity, being particularly aware of cracks.	The devices are not whole and there are some cracks.	Some humidity may have entered the device. Call the assistance for an eventual device replacing.	
		The devices do not show any sign of damage.	A malfunctioning on one of the electronic boards has occurred. Call the service.	

TROUBLESHOOTING *(continued)*

Error description	Action to be carried out	Effect	Solution
By pressing a key, the associated output is not activated.	Please see “Board output connection” section of this manual, disconnect the cable from the non-functioning electro-valve, switch on the device, activate the non functioning output and verify with the multimeter that while the output is active the 12V are present on the cable.	There are 12V on the cable when the REMOTE output is activated.	The electro-valve is damaged. Call the service.
		There are not 12V on the cable when the REMOTE output is activated.	The cable could be seriously damaged or there could be an electricity problem. Carry out the action indicated at the following point.
	Check that the junction cable with the electro-valve is not damaged.	The junction cable is seriously damaged.	The junction cable is seriously damaged, so the 12V don't do not reach the electrovalve. Call the service.
		The junction cable is not damaged.	There is a problem on the power board, contact service.
The system turns off or resets when another output is activated.	Please see “Board output connection” section of this manual, disconnect the cable of the malfunctioning output, then try again.	The REMOTE returns working correctly.	There is a short circuit on an electro-valve, it has to be replaced.
		The REMOTE continues to reset or to turn off	There is a short circuit on the junction cable to the electro-valve, or directly on the board. Call the service.

Parts List

Item	Part No	Description
1	PTM-V14-C02a	RECIEVER BOX & CIRCUIT BOARD
2	S18211TC411	DIN PLUG WITH LED
3	S18211TC411-R	DIN PLUG WITH LED -Reverse mounted
4	RC-PTM-V14-C02-C1	2 X0.5 Cable 250mm long (outside)
5	RC-PTM-V14-C02-C2	2 X0.5 Cable 380mm long (outside)
6	RC-PTM-V14-C02-C4	2 X0.5 Cable 570mm long (outside)
7	RC-PTM-V14-C02-C5	2 X0.5 Cable 380mm long (outside)
8	RC-PTM-V14-C02-C6	2 X0.5 Cable 570mm long (outside)
9	RC-PTM-V14-C02-C7	2 X0.5 Cable 380mm long (outside)
10	RC-PTM-V14-C02-label	FUZE LABEL
11	RC-PTM-V14-C02-mount	MOUNTING PLATE
12	RC-PTM-V14-C02-C3	2 X0.5 Cable 380mm long (outside)
13	RC-PTM-V14-CAB01	BREAKAWAY CABLE
14	RC-PTM-V14-CAB02	2ND CABLE WITH 25A INLINE FUSE
15	RC-PTM-V14-REM	REMOTE CONTROL
16	RC-PTM-V14-RCH	REMOTE CHARGER BASE PLATE



Manual override

In the event of Manual Override, in order to lower wings, please follow this procedure:

1. Turn off remote control (Disconnection is not necessary);
2. Press the black tap in and turn it clockwise (Figure A);
3. Turn the screw anti-clockwise until fully open (Figure B);
4. Press the button fully (Figure C).



Figure A



Press the knob in and turn



The knob will lock in this position

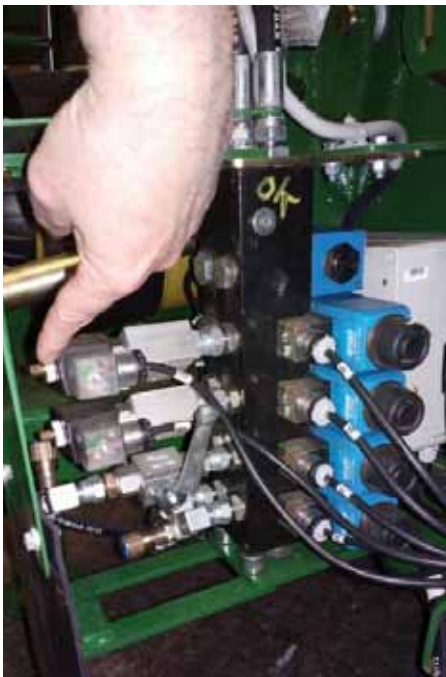
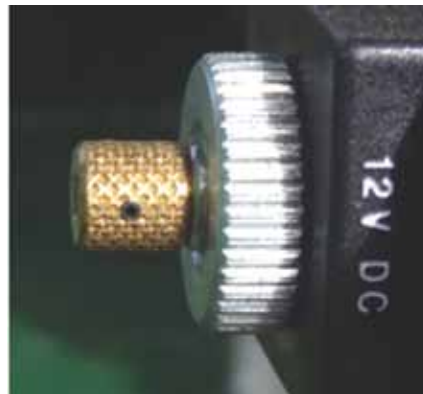


Figure B

Top screw (shown) - right wing.
Bottom screw - left wing.



This shows the normal position, threaded in.



This shows the manual override position with the thread out. IMPORTANT - The check will not work in this position & this should be used for maintenance purposes only. Manual override should not be used when operating the machine normally.



Figure C

Button shown will make the wing go down.
Button on the opposite side will raise the wing.

ATTENTION
Keep clear when raising and lowering wings.

DISPOSAL REGULATIONS



Disposal of electric and electronic products at the end of work cycle

The crossed garbage bin symbol means that the product must be collected separately from other waste at the end of its useful life. Do not dispose of the product in the domestic litter bin. Check local regulations for further information regarding the disposal of electronic products.

DECLARATION OF CONFORMITY

The included products satisfy the requirements of the Directive 2004/108/CE.

Manufacturer's name P T M S.r.l.
Manufacturer's address Via per Isorella 22A 25010 Visano BS ITALY

DECLARES THAT THE FOLLOWING PRODUCTS

Product name **REMOTE CONTROL**
Models **TELE RF V14-C02**

IN ACCORDANCE WITH EMC SPECIFICATION BASED ON THE FOLLOWING RULES

EN 61000-6-3 (2007)
EN 55022 (2009) IRRADIATED EMISSION CLASS B
EN 55022 (2009) LEADED EMISSION CLASS B

-EN61000-6-1 (2007)
IEC 61000-4-2 (2011) Electrostatics discharging STANDARD B
IEC 61000-4-3 (2011) Irradiated fields STANDARD A
IEC 61000-4-4 (2010) Quickly Transistor/Burst STANDARD B
IEC 61000-4-5 (2007) Pulses/Surges STANDARD B
IEC 61000-4-6 (2011) Interferences caused by radio frequency fields
STANDARD A

SIGNAL AND SUPPLY LINES: DIRECT CURRENT
The products have been tested under a typical configuration.

VISANO 28-02-2012
Compliance Engineer
Ing. Vittorio Michelotti

In Europe: Get in touch with sales and service department of Ptm s.r.l. via per Isorella 22/A
25010 Visano (BS). Tel. +0039 030-9952733 Fax +0039 030-9952818