



MANUAL

RC4 PRO

TRANSPONDER



CAN BE USED FOR

EXPERIENCE **PROGRESS**

Published by:
MYLAPS B.V.
Zuiderhoutlaan 4
2012 PJ Haarlem
The Netherlands

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Manual revision history		
Version	Date	Amendments
Version 1.0	November 2018	First manual – new product

1. How to use this manual



Search for Keywords

Search for keywords such as “decoder or installation” to find a topic. Press Ctrl+F on Windows or Command+F on Mac.



Navigate Topics

View a complete list of topics in the table of contents. Click on a topic to navigate to that section



Printing this Document

This document supports high resolution printing.

Legends



Hints and Tips



Important



Reference

About this Manual

This manual is intended for operating and supervisory personnel and provides information on installing and operating the RC4 PRO Transponder.

This publication has been written with great care. However, the manufacturer cannot be held responsible, either for any errors occurring in this publication or for their consequences.

The sale of products, services of goods governed under this publication are covered by MYLAPS 's standard Terms and Conditions of Sales and this product manual is provided solely for informational purposes. This publication is to be used for the standard model of the product type given on the cover page.



This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference
- (2) This device must accept any interference received, including interference cause undesired operation.

Warning (part 15.21)

Changes or modifications not expressly approved by the party responsible for compliance could void the users' authority to operate the equipment.



This device complies with the EMC directive 2004/108/EC and RTTE directive 1999/5/EC. A copy of the declaration of conformity can be obtained at:

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RoHS Compliant

This equipment has been tested and found to comply with the limits for RoHS compliant materials. These limits require manufacturers to ensure that they do not use materials or components that contain restricted substances that may be harmful to the environment.

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2. General

Our RC transponders help you to track lap times and give better insights in your performance.

You install the transponder in your RC car. If you race with multiple RC cars it is convenient to install a transponder in every car. A transponder has a seven-digit number. If you change you register your transponders in your account and choose a nick name, all transponders will have the same name on the scoreboard.

- The RC4 PRO transponder is 25% smaller than the RC4 transponder.
- A shorter 8 cm cable ensures a perfect fit every time.
- It weights only 3 grams
- All your results in your personal profile
- RC4 transponders can be used for both indoor and outdoor racing and will perform on just about any surface.
- Only compatible with MYLAPS RC4 timing systems

2.1. What is in the box

	10R147 + Piece of tape
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2.2. Specifications

Dimensions (WxLxH): 15.7x18.0x4.5 mm 0.62 x 0.71 x 0.18 in	Weight: 3 g
Cable length: 80 mm / 3.1 in	Humidity: Max. 90% relative
Max. Speed: 120 km/h / 75 mph	Temperature range: 0-50 °C / 32-122 F
Signal transfer: Magnetic induction	Code resolution: 1.5 ms
Transponder position: Max. Height 15 cm / 6 in	Power: Feed from free receiver channel (ch3 or 4)
Connection Plug: Connect using a standard Servo plug	Power consumption: 19mA @ 6 VDC
Operating voltage: 2.8 <--> 16 VDC (recommended: 3.5 <--> 12 VDC)	Wire insulation: Aerospace/MIL-spec high-temp PTFE (Gasoline/Nitro resistant)

Specifications are subject to change without notice.

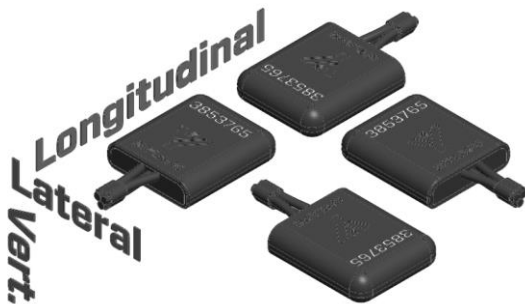
3. How to use RC4 PRO Transponder

Create an account or login via <account.mylaps.com>

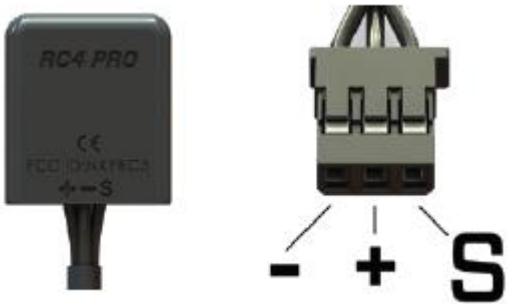
In your account you have an overview of your transponders and your results.

Change the nick name, so all your transponders will have all the same name.

Mounting

	Mount the transponder horizontally (see picture). All other orientations will result in a weaker signal. Mount the transponder no higher than 15 cm (6 inch) from the track. Avoid metal or carbon fiber between car and the track. You can use the tape to fix your transponder.
	Feed from a free receiver channel (ch 3 or 4). Use Y splitter if this channel is not available.

Polarity

	Make sure the polarity of the servo connector is respected by the receiver. When wires are shortened, check these images for polarity.
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Flashing LED

	The transponder LED always blinks red while it is powered. Frequency of 1Hz (1x per second): Voltage is higher than 3.3. VDC and lower that 12 VDC – normal operation Frequency of 5 Hz (5x per second): Voltage is lower or higher than recommended, the transponder will not work properly.
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Support

In case you encounter any issues, please contact your sales offices:

MYLAPS EMEA Office
Haarlem, The Netherlands
Tel: +31 23 7600100
Email: info@mylaps.com

MYLAPS Americas Office
Atlanta, USA
Tel: +1 678 816 4000
Email: info.americas@mylaps.com

MYLAPS Japan Office
Tokyo, Japan
Tel: +81 3 6418 8209
Email: info.japan@mylaps.com

MYLAPS APAC Office
Sydney, Australia
Tel: +61 2 9533 1100
Email: info.asia.pacific@mylaps.com

MYLAPS Asia Office
Selangor, Malaysia
Tel: +60 3 5613 1235
Email: info.asia@mylaps.com

Our Frequently Asked Questions (FAQ) can be found on help.mylaps.com

CE Declaration of Conformity MYLAPS RC4 PRO Transponder

We,

MYLAPS
Zuiderhoutlaan 4
2012 PJ Haarlem
The Netherlands

Declare that the RF transponder

MYLAPS RC4 PRO Transponder

In accordance with the following directives:

in accordance with the following Directives:

2014 / 53 / EU	The Radio Equipment Directive (RED);
2011 / 65 / EU	The restriction of the use of certain hazardous substances in electrical and electronic equipment Directive (ROHS)

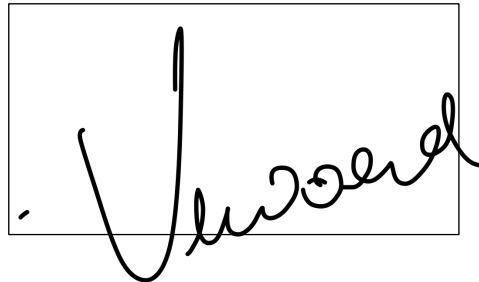
has been designed and manufactured to the following specifications:

EN 300 330-2 (2015)
EN 301 489-1 (2011)
EN 301 489-3 (2013)

I hereby declare that the product named above is designed to comply with the relevant sections of the above referenced specifications, and all essential requirements of the Directives.

Name of authorized person:	John Verwoerd
Function of authorized person:	R & D Director
Place and Date:	Haarlem, November, 2018

Signature of authorized person:

A rectangular box containing a handwritten signature in black ink. The signature is cursive and appears to read 'J. Verwoerd'.