

## ▶ Radio system

*System for communication and control via radio.*

DESIGNED&PRODUCED BY SPAGNOL

{....our mission is to provide our installers with advanced systems....}

## Radiosystem



The valves radio control system consists of:

## RADIO SYSTEM

- A base station to be connected to the irrigation controller or dosing unit (code 305001001).
- A series of remote stations for valve control (code 305001003).


The maximum operating distance depends on the height at which the antenna of the remote stations is installed. With the antenna of the base station installed at 7m (above the crop level) the following operating distances are obtained:

Antenna height of the remote station <sup>(1)</sup>	Operating distance from the base <sup>(2)</sup>
2m	1.5 Km
4m	2 Km
7m	3 Km


<sup>(1)</sup> Height above the level of crops.

<sup>(2)</sup> Only in the case of absence of obstacles between base station and remote station such as trees and buildings.

### BASE STATION:

Code	
	<p><b>305001001</b></p> <p><b>FLEX2-RADIO-BASE STATION</b></p> <p>Base radio station to be connected to the main controller unit. Including:</p> <ul style="list-style-type: none"> <li>• ISM band 2.4GHz FHSS (frequency hopping spread spectrum), no RF license required.</li> <li>• FHSS technology allow the radio to use all ISM radio channels, thus making a reliable communication system.</li> <li>• Radio communication security: 128-Bit AES Encryption.</li> <li>• European RTTI, FCC, Canadian IC and ETSI Certified for unlicensed operation.</li> <li>• IP67 plastic tubular enclosure completed of electronic board and antenna.</li> <li>• Setup/deploy of the system at the main controller unit, using familiar Spagnol Console software (no operation required at antenna side).</li> </ul> <p>Supplied with:</p> <ul style="list-style-type: none"> <li>• 50mt of cable for RS422 connection to the main irrigation unit (if necessary the cable can be extended using the KIT code 305001004);</li> <li>• Mounting KIT for pole Ø32mm (pole not included).</li> </ul>

### ACCESSORIES:

Code	
	<p><b>305001004</b></p> <p><b>FLEX2-RADIO-ANTENNA CABLE EXTENSION KIT</b></p> <p>This accessory allows to extend the length of the antenna cable (both of the base station and of a remote station) of 30m</p> <p>Composed of:</p> <ul style="list-style-type: none"> <li>• Antenna extension cable 30m</li> <li>• Plastic connection box with antenna cable.</li> </ul>

## REMOTE STATIONS:

Features common to all remote stations:

- Bluetooth interface for setup/deploy/testing operation via Android application.
- ISM band 2.4GHz FHSS (frequency hopping spread spectrum), no RF license required.
- FHSS technology allow the radio to use all ISM radio channels, thus making a reliable communication system.
- Radio communication security: 128-Bit AES Encryption.
- European RTTI, FCC, Canadian IC and ETSI Certified for unlicensed operation.

Supplied with:

- 8mt of cable for antenna to control box connection (if necessary the cable can be extended using the KIT code 305001004);
- Antenna mounting KIT for pole Ø32mm (pole not included);

Code



### FLEX2-RADIO-4 LATCH MANAGEMENT KIT

Radio remote unit for the command of max.4 latch DC solenoids.

Featuring:

- n.4 outputs for 2 or 3 wires DC latching solenoid, pulse time adjustable from 20ms to 100ms, pulse voltage adjustable from 8VDC to 20VDC.

• Composed of three parts:

1: Control box, IP67 plastic enclosure to be installed close to the solenoid, with electronic board and internal battery. Installation on wall or on pole Ø32mm (pole not included).

2: Antenna, IP67 plastic tubular enclosure, completed of electronic radio board and antenna. Installation on pole Ø32mm (pole not included). Completed of 8m of cable for the connection to control box.

3: Photovoltaic panel completed of panel mounting KIT for pole Ø32mm (pole not included).