



## Technical Information

Power supply	3.6Ah - 3.6V type "A" lithium internal battery
Battery life (*)	Up to 5 years <i>(radio signal quality at least sufficient)</i>
Measures acquired <i>(1 or 4 input channels)</i>	Relay status
Sampling interval (*)	Selectable from one minute to 24 hours
Working temperature	<ul style="list-style-type: none"> <li>Operative: -30°C ÷ +60°C</li> <li>Warehousing: -40°C ÷ +70°C</li> </ul>
Radio frequency	ISM 868MHz
Radio coverage	Up to 6Km in line of sight <i>(can be extended using <a href="#">WR12</a> battery powered repeaters)</i>
Sealing	IP30
Dimensions	120x80x33,5mm
Weight	150g
Case material	ABS
Mounting	<ul style="list-style-type: none"> <li>Fix on 2 points</li> <li>503 built-in box</li> </ul>
Connections	Wireless, USB



### Wireless Smart Actuator.

The **WSA02Rx** are actuators with one or four relay input channels fully manageable in wireless mode to command up to 8A charges, so, suitable for centralized management of different thermal adjustment rings.

Thanks to wireless mode, relay's status can be read, and commands can be issued remotely.

Two models available:

- one single pole, double throw relay output (*WSA02R1*)
- one single pole, double throw relay output and three single pole, single throw relays output (*WSA02R4*).

Setting up proper configuration parameters for each channel, relay's behaviour in case of offline condition can be defined:

- OPEN → put the relay in "OPEN" status
- CLOSE → put the relay in "CLOSED" status
- NULL → maintain the current relay status

The radio module High Reliability (*unique 868MHz radio technology, implementing frequency hopping on 11 channels*) based on **WINECAP™ LuPo** protocol (*Long Range*) provides an excellent radio range, low battery consumption and the certainty of data recovery in any situation (*black out/ signal obstacles*).

With a backup memory onboard may store the last 64,000 samples per channel even if the wireless link is down. Samples can be downloaded using a USB connection.

Using the configuration software, the sampling interval may be set and two thresholds per channel can be activated.

May be interfaced with:

- all the **basestations** of [MWDG](#) product line
- all the **basestations** of [MWLI](#) product line

If necessary, radio coverage may be extended up to 16 times using [WR12 repeaters](#) (*battery powered repeaters with battery life up to 7 years*) between the actuator and the **basestation**.

## Actuation

Output status sample and transmission	Directly from/to enrolled basestation
<b>WSA02R1 model (1 relay)</b>	One single pole, double throw 250Vac 8A relay output ( <i>SPDT</i> ) fixed on a 3-way AWG 26÷14 5mm pitch terminal block
<b>WSA02R4 model (4 relays)</b>	<ul style="list-style-type: none"> <li>• One single pole, double throw 250Vac 8A relay output (<i>SPDT</i>) fixed on a 3-way AWG 26÷14 5mm pitch terminal block and</li> <li>• Three single pole, single throw relays output (<i>SPST</i>) fixed on a 2-way AWG 26÷14 5mm pitch terminal block</li> </ul>
Activation Delay	Depending by the wireless network complexity. Typically, few seconds.

\* battery life may be influenced by fieldwork conditions, sampling interval and system configuration. - refer to User Manual.

The features shown may be subject to change without notice.