



# Sparv receiver RR4

## Sturdy receiver for Windsond S2 radiosondes

When doing weather soundings with the Sparv S2 radiosonde, the RR4 radio receiver uses LoRa radio modulation to receive the radio signal on the ground.

RR4 is weather-proof, designed for IP65 environmental protection. The connectors are protected with included caps when not in use.

The internal battery allows untethered operation for up to 20 hours. It charges from USB.

RR4 can manage the collected weather data in several ways:

- Forward data over USB to a PC (\*)
- Record data to an internal micro SD card
- Forward data over wifi to a PC (\*) - *coming feature*
- Forward data over Bluetooth to a PC (\*) - *coming feature*
- Serve a web application over wifi, to show data on multiple laptops, tablets or smartphones without installing an application - *coming feature*

*(\*) The PC needs to run the Windsond Desktop application, available for Windows, Linux and headless Raspberry Pi. A license file is required.*

A short cable allows connecting a S2 sonde to charge the sonde, to:

- Speed up S2 GPS signal acquisition
- Charge the S2 battery and power S2
- Synchronize radio settings

The built-in GPS assures accurate data timestamping and can speed up the GPS acquisition time for sondes. The built-in barometer can be used to verify sonde pressure readings before launch.

A buzzer gives an audible sense of the radio reception quality, when enabled.

Three LEDs signal the most essential status.

An internal expansion slot enables future addons.

RR4 supports firmware updates in the field.

