

Radiosonde RS41 E-models

VAISALA

Product Spotlight

Providing trusted weather observations for a sustainable future

High-quality atmospheric sounding
data with 66% less plastic waste

Meteorologists and research
institutions launch radiosondes
every day from land and sea to
collect crucial weather observations.
Vaisala radiosondes provide world-
class sounding data and are known
for their accuracy, reliability and
ease of use. Now they can also have
biodegradable parts.



Key benefits

Radiosonde RS41-SGE:

- Biodegradable and plastic-free BioCover and BioTwine
- Excellent for synoptic soundings
- Temperature and humidity sensors
- GPS height, pressure and wind data
- Automated ground checks
- Standards-compliant, stable narrow band transmission

Radiosonde RS41-SGPE:

- Biodegradable and plastic-free BioCover and BioTwine
- Excellent for sensor based pressure needs
- Temperature and humidity sensors
- GPS wind direction and speed
- Automated ground checks
- Sensor-based pressure and height
- Standards-compliant, stable narrow band transmission

Why Vaisala?

As the global leader in weather and environmental measurements, Vaisala provides trusted weather observations for a sustainable future. With over 85 years of experience and customers in 170+ countries, from the North and South Poles to Mars, we help provide the most reliable and accurate weather and climate information for better and safer daily lives.

Our instruments and intelligence are known as the gold standard for precision and reliability. As a sustainability leader we enable meteorology professionals to better understand, forecast and explain climate change. We continue to channel our curiosity into climate action and new ways of enabling a better planet for all.

The environmental impact of radiosondes mainly comes from batteries, electronics and mechanics. Vaisala Radiosonde RS41 E-models combine high-quality atmospheric sounding data with innovative, biodegradable materials to help reduce plastic waste originating from sounding operations.

RS41 E-models are an industry first in biodegradable materials: All models include BioCover™, our patent-pending plastic-free and biodegradable radiosonde cover and insulation, and BioTwine™, our plastic-free and biodegradable unwinder twine. RS41 E-models can replace standard RS41 radiosondes in operational use, with the same uncompromising performance and accuracy.

Tailored to the needs of meteorological organizations, RS41 E-models measure upper air temperature, humidity, pressure and wind – providing the most accurate, dependable and high-quality data available.

RS41 radiosondes are trusted worldwide for delivering industry-leading data accuracy. The most widely used as the GRUAN reference grade radiosonde, Vaisala radiosondes streamline launch preparations, reduce human errors, and lower operational costs of upper-air weather observations.

Both the RS41-SGE and RS41-SGPE models provide superior PTU and wind measurement performance, automated ground checks and GPS data – all in a robust and easy-to-use design. The advanced design is compatible with existing ground equipment and current sounding systems, both manual and automatic.

