Any kind of sensor can be connected to the Newsteo Logger radio “universal” platform. As soon as the probe is plugged, the sensor is able to transmit its measurements through radio to a remote supervision center.

**Interfaces and sensors to connect**

- **Potentiometric**: for crackmeter, extensometers, pressure sensor, photoresistance, angular potentiometer…
- **4-20 mA or 0-10 Volt**: for legacy displacement, pressure, liquid level, gas sensors…
- **Impulse counters**: flow meter, rain gauge, gas meter…
- **Relay output**: switch, contact…
- **Gauge Wheatstone bridge interface**: for structural or curve measurements
- **Vibrating wire**
- **Other sensors**: pyranometer, albedometer, air speed, pressure …

**LOCAL MONITORING**
RF Monitor Software enables to remotely configure and monitor all Newsteo products from a local PC.

**ONLINE MONITORING**
WebMonitor application enables any allowed user to bring up on screen measures from Newsteo loggers from any device connected on the internet.
## TECHNICAL SPECIFICATIONS

<table>
<thead>
<tr>
<th>Model</th>
<th>Interface</th>
<th>Range of measure</th>
<th>Power supply for the sensor</th>
</tr>
</thead>
<tbody>
<tr>
<td>LGS33</td>
<td>-50mV / +50 mV</td>
<td>0...2.5 Volt</td>
<td>NA</td>
</tr>
<tr>
<td>LGS37</td>
<td>0...2.5 Volt</td>
<td>-50mV / +50 mV...2.5 Volt</td>
<td>NA</td>
</tr>
<tr>
<td>LGS31</td>
<td>Potentiometric 1 input</td>
<td>0 to 100%, impedance 1 Ohm to 65 Kohm</td>
<td>2.7V /150mA max</td>
</tr>
<tr>
<td>LGP33</td>
<td>Potentiometric 1 input</td>
<td>0 to 100%, impedance: 1 Kohm ... 65 Kohm</td>
<td>2.7 V / 150 mA max</td>
</tr>
<tr>
<td>LGS3D</td>
<td>Wheatstone bridge, full-bridge</td>
<td>± 50 mV for a 2.7V excitation</td>
<td>NA</td>
</tr>
<tr>
<td>LGS34</td>
<td>4-20 mA</td>
<td>0...20 mA, impedance 62 Ohm</td>
<td>NA</td>
</tr>
<tr>
<td>LGS35</td>
<td>0-10 Volt</td>
<td>0 ... 10 Volt</td>
<td>NA</td>
</tr>
<tr>
<td>LGS36</td>
<td>Relay</td>
<td>10 Hz</td>
<td>2.7V / 62mA max.</td>
</tr>
<tr>
<td>LGS39</td>
<td>Impulse</td>
<td>Up to 10 Hz</td>
<td>NA</td>
</tr>
<tr>
<td>LGN45</td>
<td>-5V / +5V 5 inputs</td>
<td>-5V / +5V</td>
<td>13.6V Conso. max.: 20mA (by sensor)</td>
</tr>
<tr>
<td>LGV41</td>
<td>Vibrating wire 4 inputs</td>
<td>0 à 3 Volt</td>
<td>3 Volt / 150mA</td>
</tr>
</tbody>
</table>

### LGS Casing features
- Weight: 250g
- Size: 96x64x34mm
- Battery: 1AA Lithium Thionyl 3.6V
- IP65 Aluminium
- Supplied fixation base
- 1/2 wavelength antenna

### Radio transmission
- On the ISM frequency: 868 MHz
- Radio range: up to 1 kilometer
- Battery autonomy
- Up to 3 years (at 25°C with a measure frequency of 15 minutes)

### Memory capacity
- Up to 32 250 time stamped measurements. Equivalent to 7 months of data with a measure frequency of 15 minutes

### Operating temperature
- -40 ... +85°C

### EVALUATION KIT

This kit gives you the opportunity to evaluate the Newsteo Loggers.

It is made of:
- A Newsteo LGS34 or LGS35 or LGS39, depending on your choice
- A cable to connect your sensor
- A RF-to-USB Key medium-range (1/4 wavelength antenna included)
- A CD-ROM containing the installation of the RF Monitor software (the application software of the Logger which enables the restoration of the recorded measures), USB drivers for the RF-to-USB key and the documentation.