

Application Note – LGV41

1 Reminder about LGV41 performances

Please refer to the specification for full details.

- Input number : 4 inputs (for 4 vibrating wires)
- Input range : 300 Hz to 3500 Hz
- Duration of the measurement:
 - o From 300 Hz to 1200 Hz : 40 s / input
 - o From 1201 Hz to 3500 Hz : 90 s / input

It means that if you are using the 4 inputs, with vibrating wires at 2000Hz, the measurement will take about 6 minutes. In this case, never set a measurement frequency below 6 minutes, otherwise the measurement cannot be properly done.

The measurement frequency is set through RF Monitor or Webmonitor.

2 Calibration

Each input of the delivered LGV41 is **fully calibrated**. It is not necessary to calibrate again the product after delivery.

Deviation: about 30ppm/year (not significant).

3 Battery change

If you need to change the battery, use the same reference than the one delivered by Newsteo. You can also order new batteries to Newsteo.

3.6 V Primary lithium-thionyl chloride (Li-SOCl₂) - High power - C-size spiral cell with connector.

4 Software Installation & Use

LGV41 is a standard Newsteo product. It is compliant with Newsteo software (RF Monitor) and web application (Newsteo Webmonitor). For the use of that software, please refer to the corresponding user's guide.

5 Connection of the vibrating wires

5.1 Connection of the vibrating wire

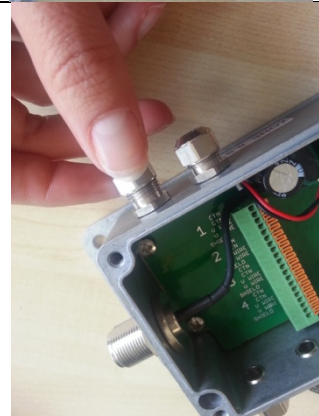
Important remarks before starting:

- **Screw the antenna with fingers.** Be careful; do not use a tool for tightening it.
- **Screw the cable gland first with fingers,** and then add a turn with an adapted tool.
- **Cable gland diameter :** 3.5 mm to 6.5 mm
- **If you are not using the 4 inputs, you need to “close” the unused cable gland** (otherwise water or dust can enter the enclosure). Use a special cap or a put a piece of wire.

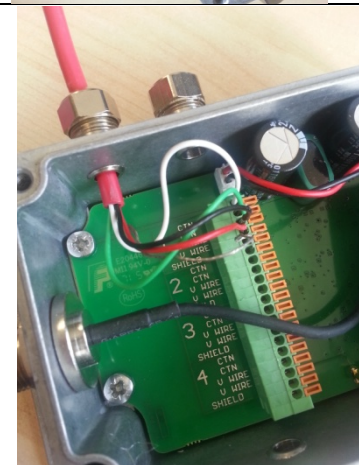
1. Unscrew the cover of the enclosure



2. Unscrew the cable gland of the input you will connect



3. Connect the vibrating wire according to the wiring plan.



4. Screw back the cable gland



5. Connect the other vibrating wires following the same procedure and then close the enclosure.

5.2 Installation of the LGV41

To optimize radio range, **the antenna must be vertical.**

The LGV41 has to be installed vertically.



6 Manufacturer

Address of the manufacturer

NEWSTEO S.A.S.
93 avenue des Sorbiers –
ZE Athelia 4
13600 La Ciotat – France

Support centre: <http://support.newsteo.com/>