

# Newsteo™ Builder

**Solution to supervise concrete's setting and curing**

The concrete quality depends on the respect of the setting and curing of it.

Newsteo™ has developed the Newsteo™ Builder, which allows to store and remotely check those parameters, since the first hours of the setting and during the following years (up to 7 years).

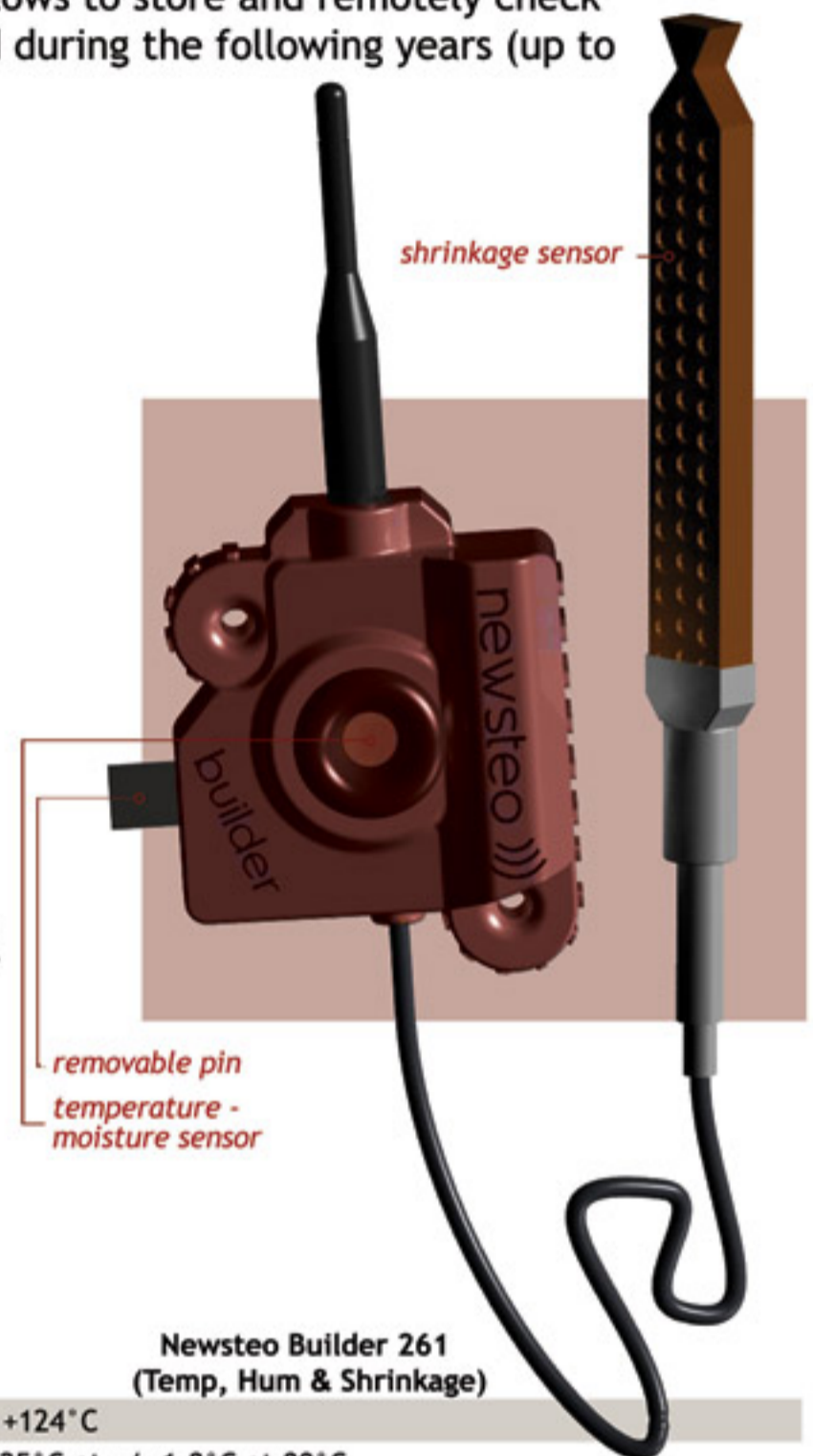
## ■ Functioning

Newsteo™ provides a wireless device, the Newsteo™ Builder, embedding sensors for the measurement of temperature, moisture and shrinkage of the concrete.

It is directly buried into the concrete and it records the corresponding measurements in its non-erasable embedded memory (which can be at any time read by a PC). It can also transmit them in real time, without any wire, to a PC.

As all the measurements are dated, the user gets the complete history of the supervised concrete.

2 versions of the Newsteo™ Builder are available, with or without the shrinkage sensor.



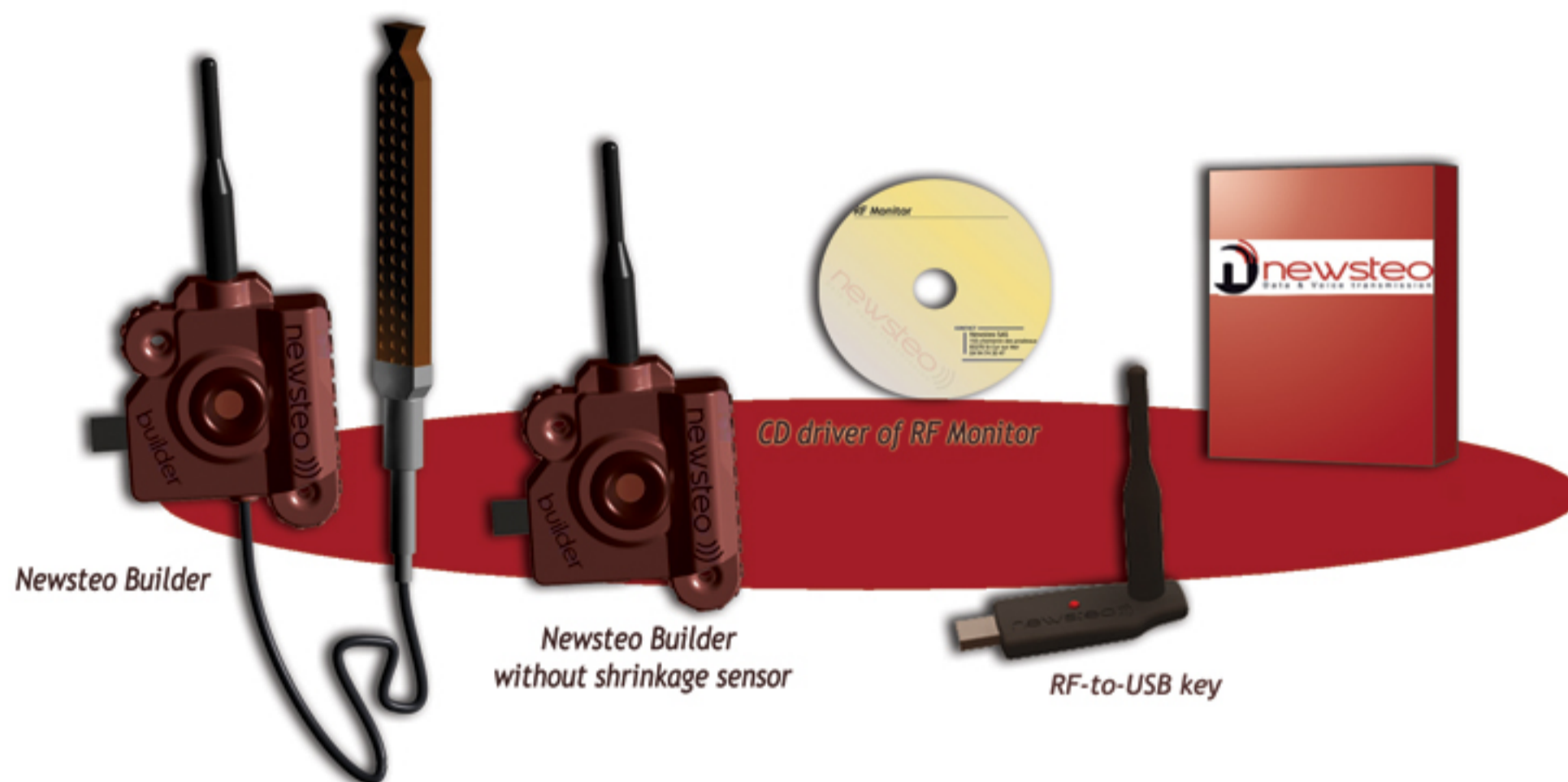
## ■ Technical features

	Newsteo Builder 221 (Temp & Hum)	Newsteo Builder 261 (Temp, Hum & Shrinkage)
Temperature range of measure		from -40°C to +124°C
Temperature accuracy	+/- 1,6°C at -20°C, +/- 0.4°C at 25°C et +/- 1,8°C at 80°C	
Humidity range of measure		from 0 to 100%
Humidity accuracy @ 25°C	+/- 3%RH from 20 to 80 %	
Shrinkage range of measure	N.A	Expansion up to 300 µm/m - Contraction up to 800 µm/m
Shrinkage accuracy @ 25°C	N.A	+/- 1% on the range +/-800µm/m
Temperature range of use*	from -20°C to +80°C	
Autonomy	From 3 to 7 years with lithium thionil battery depending on the measure frequency and the temperature of use	
Measurements periodicity	Can be set from 10 minutes to 4 hours	
Storage capacity	Up to 32 768 dated measurements	
Protection level	IP 68 (resistant to dust, to liquid concrete, suitable for continuous immersion in water under static pressure of 6 bar)	
Casing	Size of 167mm x 73mm x 29mm. Made of yielding, tear-proof and unbreakable polyurethane	
Shrinkage sensor dimensions	N.A	155 mm x 20 mm x 15 mm Câble connexion jauge : 40 cm
Installation	Fast and easy. The Newsteo™ Builder can be fixed through its 2 holes on the steel reinforcement of the structure. The product is immediately functional. The user has just to remove a pin to activate it.	

\*recommended for a high product autonomy

# Newsteo™ Builder

## ■ Evaluation Kit



This kit enables you to estimate a ready-to-use product, the Newsteo™ Builder.

The kit is made of:

- 2 Newsteo™ Builder : one with shrinkage sensor (BLD 261) and another without it (BLD 221)
- A RF-to-USB Key high range (integrated  $\frac{1}{4}$  wavelength antenna). It is the bridge between the Newsteo Builder and the PC.
- A CD-ROM containing the installation of the RF Monitor software with USB drivers, the application software of the Newsteo™ Builder which enables the restitution of the recorded measures, and the documentation.

Price of the Newsteo™ Builder evaluation kit: 890 € Excl. VAT

Do not hesitate to visit our website and contact our sales service for more information.

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