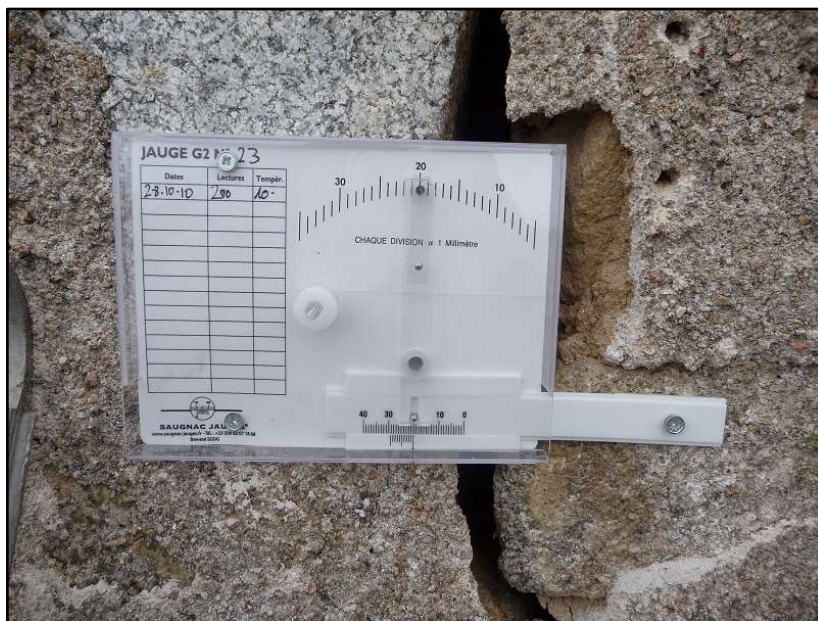# G2 Gauge - Min-Max Recording

The G2 Gauge is a precision instrument designed to measure and record variations in the spacing of cracks or expansion joints located in the same plane. It offers a resolution of 0.1 mm, allowing precise monitoring of structural movements.

This measured evolution is recorded graphically by a line showing the maximum and minimum amplitude of the movement.

An application, available at https://saugnac.app/, is provided to manage and track measurements.

The G2 gauge offers the following advantages:

- **Precise measurement**: Equipped with a 1/10th millimeter vernier, the G2 gauge allows fine reading of spacing variations.

- **Graphical recording**: Movements are traced by a graphite lead on a graduated support, facilitating the tracking of maximum and minimum changes.

- **Versatile mounting**: The gauge can be installed using double-sided adhesives for quick installation. For reinforced mounting, self-tapping screws are provided, particularly recommended on irregular surfaces.

- **Integrated protection**: A removable and ventilated cover protects the device against condensation and external damage. This cover can be secured with a provided seal, ensuring measurement integrity.

The G2 gauge is designed, produced, and assembled in France.
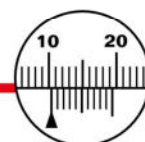
Technical specifications

Resolution	0,1 mm
Dimensions	250 mm (length) x 120 mm (width) x 27 mm (thickness)
Measuring range	Approx. 25 mm (variation possible between maximum and minimum measurement)
Weight	125 g
Material	PVC with UV stabiliser
Installation temperature with adhesives supplied	0°C to 35°C (-10°C acceptable*)
Operating temperature	From -40°C to 90°C

warm up the adhesive strips present on the gauge and strip for a few seconds in your hands

Fixing the G2 gauge

- **By adhesive:** with the provided adhesives if the surface is smooth, clean, and dry. If the surface is not completely flat and has irregularities, it is recommended to reinforce the adhesion with two-component glue.

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- **By mechanical mounting:** for any difficult surface that crumbles, is dusty, damp, has irregularities, or in cases where the installation temperature cannot be maintained, mechanical mounting should be preferred. The G2 gauge comes with impact anchors for mechanical mounting.

Reading the measurement
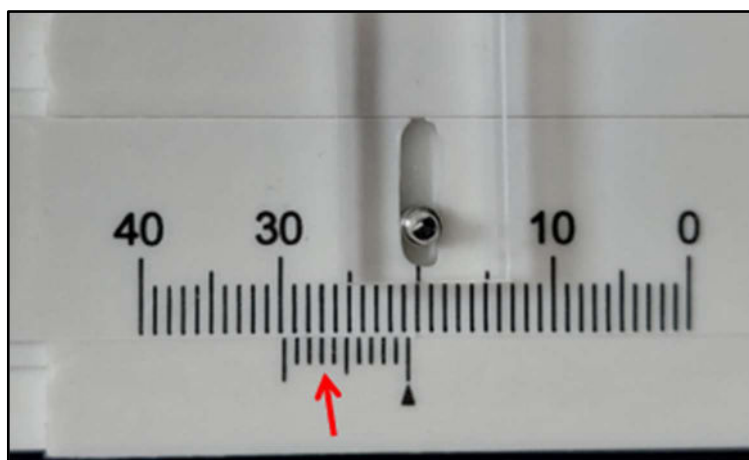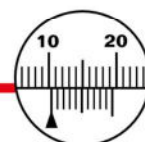

Read according to the vernier principle:

- The upper division on the mobile arm is graduated in mm from 0 to 40 mm: this is the measurement scale.

- The fixed lower division with the triangle: this is the vernier at 1/10th mm (10 divisions of the vernier correspond to 9 mm of the measurement scale)

The tool, the measurement, the know-how and the service too

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a) Reading mm

The vernier triangle is located between two graduations of the measurement scale. The number of mm corresponds to the graduation located to the right of the vernier triangle: 20 mm in the example.

b) Reading the decimal

Look for a vernier line that coincides with a line on the measurement scale. In the example, graduation 7 of the vernier coincides with graduation 27 of the measurement scale. This means the decimal reading is 7/10th of a mm.

Therefore, 20.7 mm will be read in the example photo

Recording measurement amplitude

The G2 gauge is a gauge that allows min-max recording. When moving, the slider drives an arm carrying a lead housed at its end and maintained under pressure by a polycarbonate strip.

The lead trace corresponds to 3 times the vernier displacement. After observation, simply erase the line with alcohol to reuse the gauge.
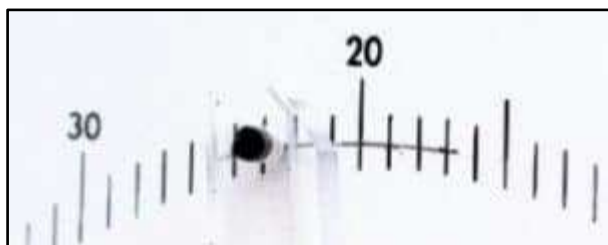
Tracking measurements with the Saugnac application

The Saugnac web application, completely free without any limitations, is available on PC or smartphone at https://saugnac.app/. It allows you to:
- record measurements and **min/max**
- **collaborate with others** on the same gauge
- manage **alert thresholds**
- classify gauges by location and **locate them on a map**
- **download data in Excel format**
- automatically display graphs
- **share data** with others without an account
- access the application from your **PC** or **smartphone**
- add measurements without connection in offline mode

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