The G20 unit

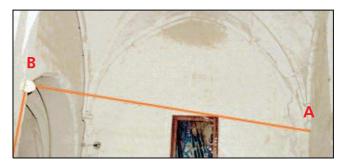
(or the recording strain gauge)

The Saugnac recording strain gauge, or G20 unit, which uses the measurement, amplification and recording qualities of the G2 Gauge, makes it possible to monitor to the nearest 1/10th of a millimetre, the changes between 2 distant points A and B.

The distance between these points may be several metres.

The G20 unit is used particularly to study the "movement in space" of structures.

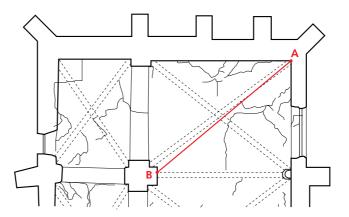




Example:

recording the distortion in the base of diagonal ribs of vaulting 7.20 m across.

Church of Saint Saturnin de la Forlt Croix (91) State Certified Architect, National Heritage -Louis PRIEUR





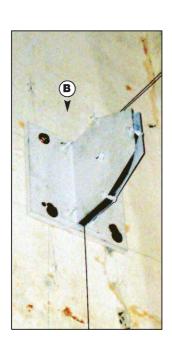


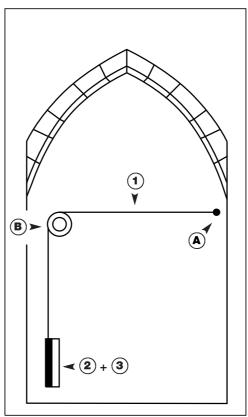
Example:

recording the yielding of load-bearing walls of barrel/groin vaulting. Medina of FËs - Medersa Attarine XIV century

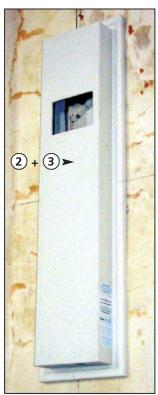
Details of the G20 unit Diagram of vaulting fitted with a G20 unit

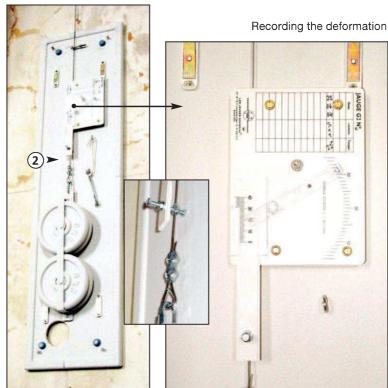
- Cold drawn invar wire 1,65 mm Mean coefficient of linear expansion = 4,4 x 10⁻⁷ / °C between 20 and 100°C
- (A) Fixed point
- (B) Return pulley with ball bearings
- 2 Unit
- 3 Protective cover











Specific case studies