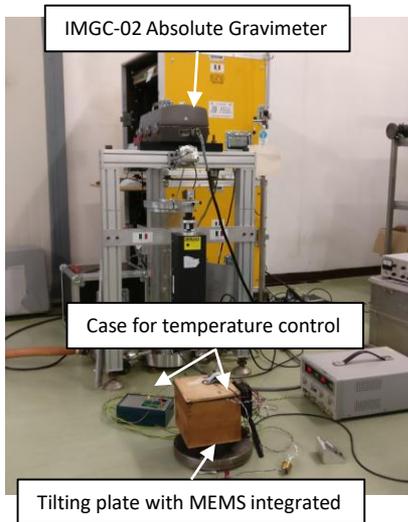
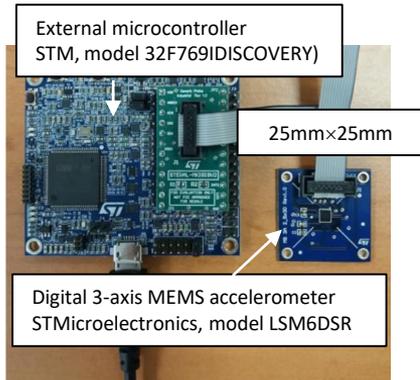


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Technical specifications:

- $f_{\text{sample}} = 12.5$ Hz
- Full Scale = $\pm 2g$
- Output unit = 16bit-signed
- Cost = 1 € (MEMS only)

Measurement conditions for calibration:

- INRiM Gravity Lab. – Turin, Italy
- $g_{\text{ref}} = 980534196.8 \pm 8.7$ μGal
- Lon. = 7.6427°
- Lat. = 45.0170°
- Elevation = 263 m
- 6 measurements (≈ 1.5 h each) in 3 days
- Temperature = 21.7 ± 0.3 °C (variability of 0.1 °C within 1.5 h)

Calibration results:

- Calibr. Factor = 1717 ± 8 Decimal_{16bit-signed}/(m/s^2)
- A bit-depth of 16 entails a resolution of 5.8×10^{-4} m/s^2
- Variability (Max-Min) within the 1.5 h time series = 1.34×10^{-2} and 5.8×10^{-4} m/s^2
- Sensitivity around 10^{-3} / 10^{-4} (m/s^2)/ $\sqrt{\text{Hz}}$
- Range of variability (Max-Min) of the 6 mean values = 4.2×10^{-3} m/s^2 and 4.5×10^{-3} m/s^2

