# EQUATIONS

**ACCELERATION EQUATION**

$$\alpha \, [g] = \frac{\lambda_{ref} - \lambda_{act}}{\beta}$$

| Measurand | Description |
|---|---|
| $\alpha$ [g] | Acceleration |
| $\lambda_{ref}$ [nm] | Reference wavelength |
| $\lambda_{act}$ [nm] **1 | Actual wavelength |
| $\beta$ [nm/g] | Acceleration sensitivity |

**1) It is recommended to acquire the wavelength using a moving average over a window of about 1second or to use a High-Pass filer to optimize the acquisition.

**STRING EXPRESSION**

$\alpha = (\lambda_{ref} . \lambda_{act})/\beta$

# CALIBRATION COEFFICIENTS

| | | | | ACCELERATION COEFFICIENTS | |
|---|---|---|---|---|---|
| Nr. | Serial number | Customer code | Product | $\lambda_{ref}$ [nm] | $\beta$ [nm/g] |
| 1 | 223863/0001 | | SAA-01; +/-200g; WL: 1572,8nm; LCP-03: 2x0,5m, 2x LC/APC | 1572,600 | 0,01070 |