

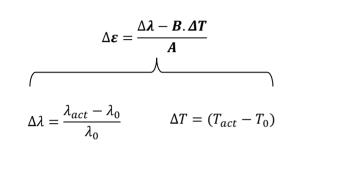
LIST OF CALIBRATION COEFFICIENTS - EXAMPLE

Customer order: N/A Revision:

Quality supervisor: tsalat@sylex.sk Produ

EQUATIONS

STRAIN EQUATION



Measurand	Description
Δε [με]	Strain shift
λ _{0,inst,strain} [nm] **1	Initial strain wavelength
T _{0,inst} [°C] **1	Initial temperature
T _{act} [°C] **2	Actual temperature
$\lambda_{act,strain} [nm] **2$	Actual strain wavelength

STRING EXPRESSION

 $\begin{array}{l} \Delta \epsilon = \left(\left(\Delta \lambda - \mathsf{B}^* \Delta \mathsf{T} \right) / \mathsf{A} \right) \\ \Delta \lambda = \left(\left(\lambda \operatorname{act} - \lambda 0 \right) / \lambda 0 \right) \\ \Delta \mathsf{T} = \left(\mathsf{T} \operatorname{act} - \mathsf{T} 0 \right) \end{array}$

For the determination of the strain sensitivity the free fiber length was used as a basis

**1 To be measured after installation of the sensor

**2 Measured value during monitoring of the sensor

CALIBRATION COEFFICIENTS

				STRAIN COEFFICIENTS		
Nr.	Serial number	Customer code	Product	Α [μῦ ⁻¹]	B [°C ⁻¹]	
1	194716/0001		SWS-03; WL: 1549,9nm, LCP-03: 2x 1mtr; 2x FC/APC, 2x WCP-01	7,75842E-07	5,89292E-06	

A **Print date:** 19.04.2021

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