

LIST OF CALIBRATION COEFFICIENTS - EXAMPLE

Customer	order:		Revision:	А

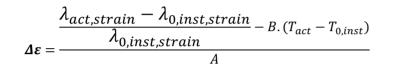
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EQUATIONS

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

(((λact,strain-λ0,inst,strain)/(λ0,inst,strain))-(B*(Tact-T0,inst)))/(A)

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

Nr.	Serial number	FBG	Product	Α [με ⁻¹]	B [°C ⁻¹]
1	198126/0001		GFA-01; 1x FBG, WL: 1535nm; LCP-01: 1x2,4m, 1x0,1m, 1x FC/APC	7,758423E-07	5,892923E-

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⁻¹]

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