Technical Information

Calculation of the heating resistance at 0 °C

$$R_{H0} = \frac{r}{1 + A \cdot t + B \cdot t^2}$$

Whereby:

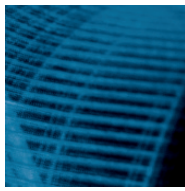
R_{H0}... Heating resistance at 0 °C

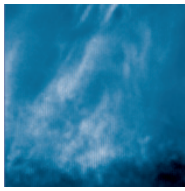
r... Heating resistance at ambient temperature t

t... Ambient temperature

A... Linear coefficient A = 3.9083 x 10^{-3} $°C^{-1}$

B... Quadratic coefficient B = -5.775 x 10^{-7} $°C^{-2}$





Calculation of the operating temperature

$$T_H = -\left(\frac{A}{2 \cdot B} + \sqrt{\frac{A^2}{4 \cdot B^2} - \frac{R_{H0} - R_H}{R_{H0} \cdot B}} \right)$$

Whereby:

T_H... Temperature

R_{H0}... Heating resistance at 0 °C

R_H... Heating resistance at temperature T_H

A... Linear coefficient A = 3.9083 x 10^{-3} $°C^{-1}$

B... Quadratic coefficient B = -5.775 x 10^{-7} $°C^{-2}$

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TÜV NORD TÜV NORD CERT GmbH ISO/TS 16949

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