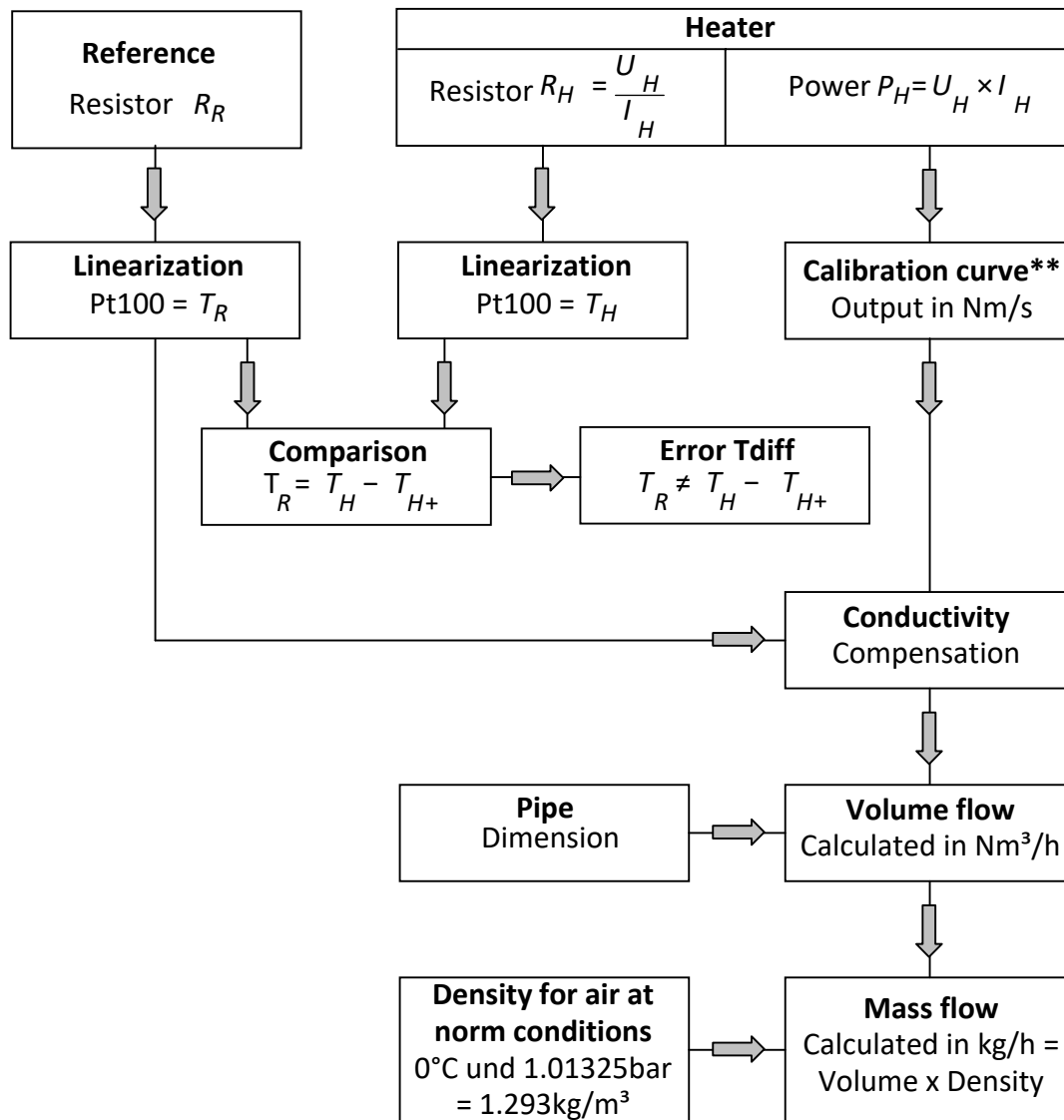
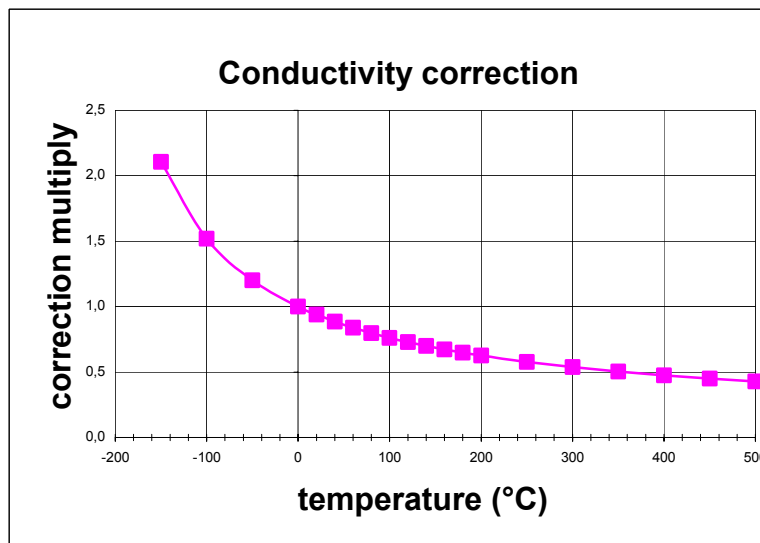


Principle of signal flow and calculation inside the LEOMI-586



**The calibration table is normalized to 0°C for the compensation of the thermal conductivity and normalized to 0°C and 1.01325bar for the mass flow calculation.



$$T_{con} = f(t)$$

Polynomial function

$$v_{tk} = v_n \times \frac{T_{con}}{0.0241}$$

Normalization of conductivity to 0°C while calibration.

$$v_n = v_m \times \frac{0.0241}{T_{con}}$$

Compensation of conductivity over the temperature inside LEOMI-586

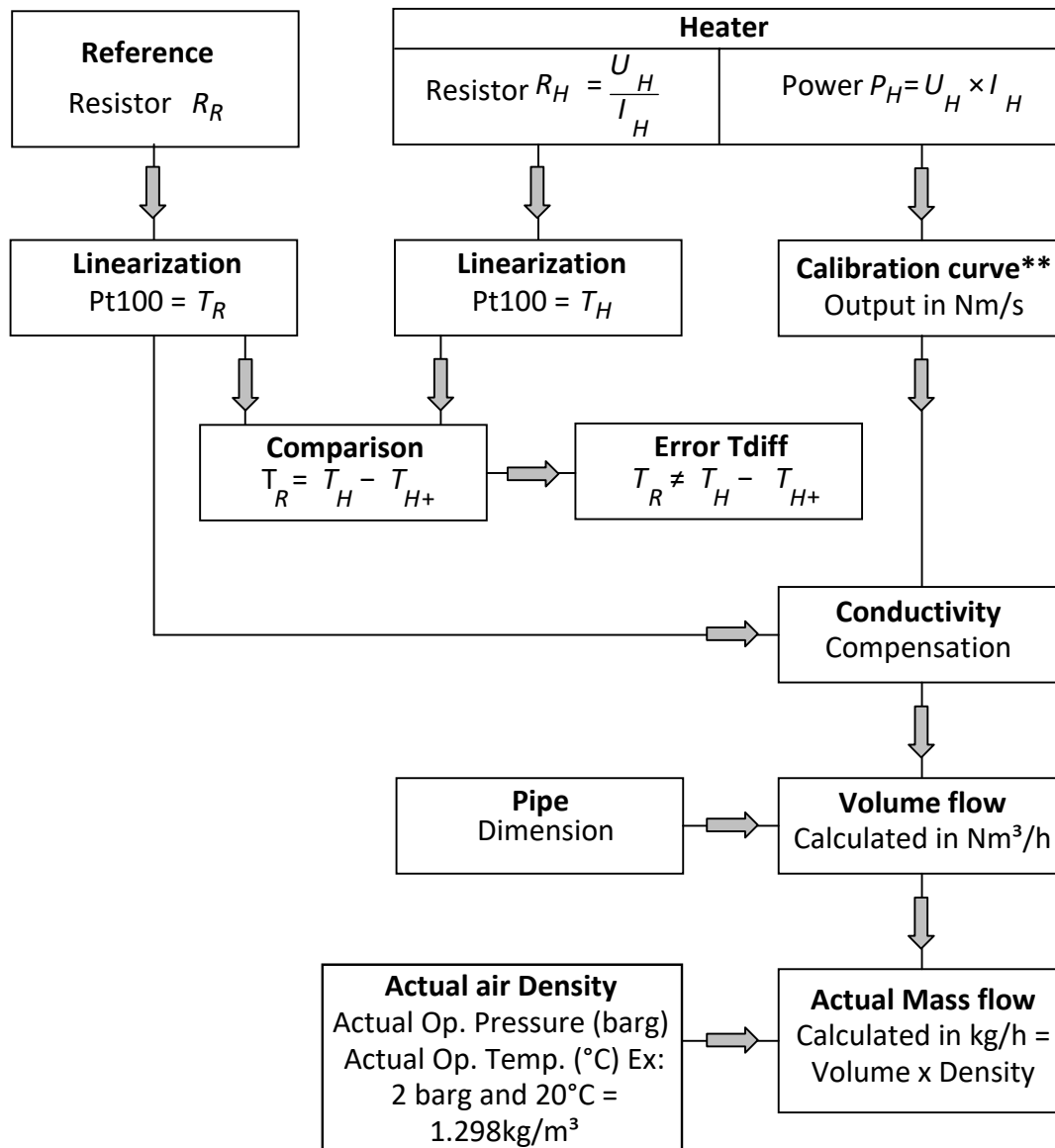
Temperature - t - (°C)	Compensation in LEOMI-586 $0.0241/T_{con}$
-150	2.107
-100	1.519
-50	1.200
0	1.000
20	0.939
40	0.886
60	0.840
80	0.798
100	0.762
120	0.729
140	0.699
160	0.672
180	0.648
200	0.626
250	0.577
300	0.537
350	0.503
400	0.475

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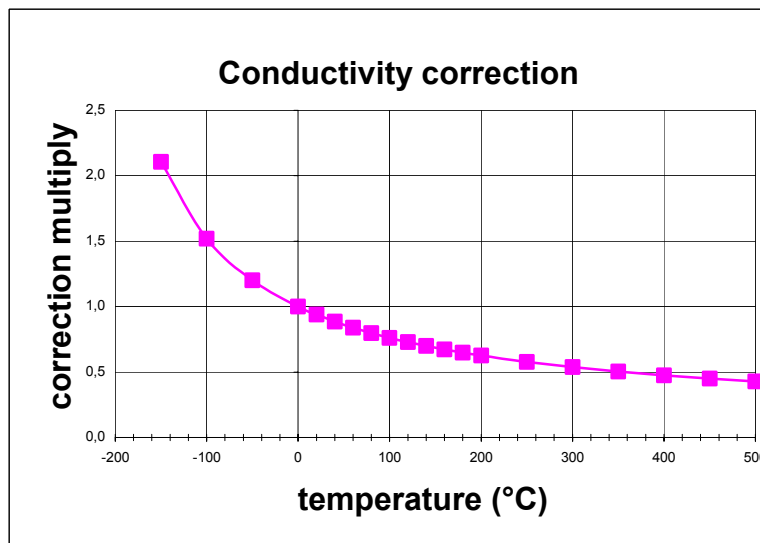
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Principle of signal flow and calculation inside the LEOMI-587



**The calibration table is normalized to 0°C for the compensation of the thermal conductivity and normalized to 0°C and 1.01325bar for the mass flow calculation.



$$T_{con} = f(t)$$

Polynomial function

$$v_{tk} = v_n \times \frac{T_{con}}{0.0241}$$

Normalization of conductivity to 0°C while calibration.

$$v_n = v_m \times \frac{0.0241}{T_{con}}$$

Compensation of conductivity over the temperature inside LEOMI-587

Temperature - t - (°C)	Compensation in LEOMI-587 $0.0241/T_{con}$
-150	2.107
-100	1.519
-50	1.200
0	1.000
20	0.939
40	0.886
60	0.840
80	0.798
100	0.762
120	0.729
140	0.699
160	0.672
180	0.648
200	0.626
250	0.577
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